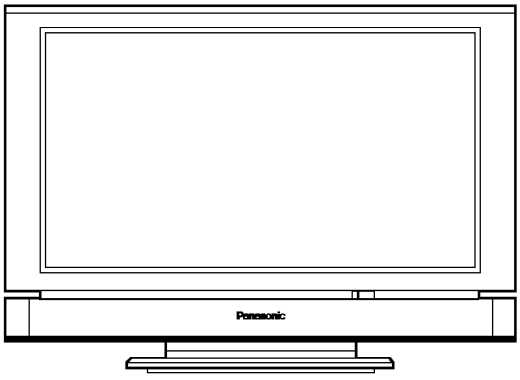
ORDER NO. ITD0203006C2

22” Diagonal LCD TV

TX-22LT2F

LH4 Chassis



SPECIFICATIONS

Specifications

Power Source

AC 100~240V, 50/60Hz

Power Consumption

Average use: 67W

Stand-by condition: 5W

TV set: DC 15V, 4.1 A max.

LCD

22-inch(558mm), 16:9 aspect ratio LCD panel

Screen Size

19.17-inch (486.7mm)(W) x 10.77-inch (273.6mm)(H) x / 22 -inch (558mm)(Diagonal)

Sound

Speaker

Tweeter (4 x 7cm 2pcs, 8 Ω), Woofer (Ø5cm 2pcs, 4 Ω)

Audio Output

9W (2.5W+2.5W+4.0W (Woofer)), 10%THD

Headphones

M3(3.5 mm) Jack x 1 8 Ω impedance

FEATURES

Aero-Hammer ® Double Woofer System (2Way 4Speaker System)

Receiving Systems/ Band name

PAL B,G,H, SECAM B,G SECAM L/L'

VHF E2-E12	**VHF H1-H2 (ITALY)**
VHF A-H (ITALY)	**UHF E21-E69**
CATV (S01-S05)	**CATV S1-S10 (M1-M10)**
CATV S11-S20 / (U1-U10)	**CATV S21-S41 (Hyperband)**

PAL 525/60

Playback of NTSC tape from some PAL video recorders (VCR)

M.NTSC

Playback from M.NTSC Video recorders (VCR)

NTSC

Playback from NTSC Video recorders (VCR)

(AV INPUT ONLY)

Aerial-Rear

UHF-VHF

Operating Conditions

Temperature: 41°F-95°F(5-35°C)

Humidity: 5%-90% RH (non-condensing)

Connection Terminals

AV1

21Pin socket (Audio/Video in, TV out, RGB in)

AV2

21Pin socket (Audio/Video in, Audio/Video out, S-Video, Q-Link)

AV3

VIDEO

RCA PIN Type x 1

S-VIDEO

Mini DIN 4-pin

AUDIO L-R

RCA PIN Type x 2

Dimensions (W x H x D)

Including TV Stand

586mm x 424mm x 240mm

TV Set Only

586mm x 388mm x 67mm

Weight (Mass)

11.5kg Net

Note:

Design and Specifications are subject to change without notice.
Weight and Dimensions shown are approximate.

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Panasonic®

1. Safety Precautions

1.1. General Guidelines

1. When servicing, observe the original lead dress. If a short circuit is found, replace all parts which have been overheated or damaged by the short circuit.
2. After servicing, see to it that all the protective devices such as insulation barriers, insulation papers shields are properly installed.

3. **After servicing, make the following leakage current checks to prevent the customer from being exposed to shock hazards.**

1.2. Touch-Current Check

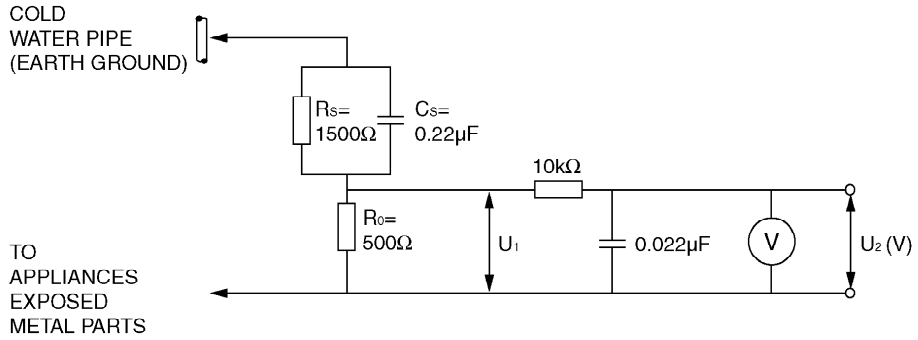
1. **Plug the AC cord directly into the AC outlet. Do not use an isolation transformer for this check.**
2. **Connect a measuring network for touch currents between each exposed metallic part on the set and a good earth ground such as a water pipe, as shown in Figure 1.**
3. **Use Leakage Current Tester (Simpson 228 or equivalent) to measure the potential across the measuring network.**
4. **Check each exposed metallic part, and measure the voltage at each point.**
5. **Reserve the AC plug in the AC outlet and repeat each of the above measure.**
6. **The potential at any point (TOUGH CURRENT) expressed as voltage U_1 and U_2 , does not exceed the following values:**
   For a. c.: U_1 = 35 V (peak) and U_2 = 0.35 V (peak);
   For d. c.: U_1 = 1.0 V,

Note:
The limit value of U_2 = 0.35 V (peak) for a. c. and U_1 = 1.0 V for d. c. correspond to the values 0.7 mA (peak) a. c. and 2.0 mA d. c.
The limit value U_1 = 35 V (peak) for a. c. correspond to the value 70 mA (peak) a. c. for frequencies greater than 100 kHz.

7. **In case a measurement is out of the limits specified, there is a possibility of a shock hazard, and the equipment should be repaired and rechecked before it is returned to the customer.**

Figure 1

Measuring network for TOUCH CURRENTS



Resistance values in ohms (Ω)

V: Voltmeter or oscilloscope
(r.m.s. or peak reading)

Input resistance: ≥ 1 MΩ
Input capacitance: ≤ 200 pF
Frequency range: 15 Hz to 1 MHz and d.c. respectively

NOTE - Appropriate measures should be taken to obtain the correct value in case of non-sinusoidal waveforms.

2. Prevention of Electro Static Discharge (ESD) to Electrostatically Sensitive (ES) Devices

Some semiconductor (solid state) devices can be damaged easily by static electricity. Such components commonly are called Electrostatically Sensitive (ES) Devices. Examples of typical ES devices are integrated circuits and some field-effect transistorsand semiconductor "chip" components. The following techniques should be used to help reduce the incidence of component damage caused by electro static discharge (ESD).

1. **Immediately before handling any semiconductor component or semiconductor-equipped assembly, drain off any ESD on your body by touching a known earth ground. Alternatively, obtain and wear a commercially available discharging ESD wrist strap, whichshould be removed for potential shock reasons prior to applying power to the unit under test.**
2. **After removing an electrical assembly equipped with ES devices, place the assembly on a conductive surface such as alminum foil, to prevent electrostatic charge buildup or exposure of the assembly.**
3. **Use only a grounded-tip soldering iron to solder or unsolder ES devices.**
4. **Use only an anti-static solder removal device. Some solder removal devices not classified as "anti-static (ESD protected)" can generate electrical charge sufficient to damage ES devices.**
5. **Do not use freon-propelled chemicals. These can generate**

electrical charges sufficient to damage ES devices.

6. **Do not remove a replacement ES device from its protective package until immediately before you are ready to install it. (Most replacement ES devices are packaged with leads electrically shorted together by conductive foam, alminum foil or comparableconductive material).**
7. **Immediately before removing the protective material from the leads of a replacement ES device, touch the protective material to the chassis or circuit assembly into which the device will be installed.**

   Caution

   Be sure no power is applied to the chassis or circuit, and observe all other safety precautions.
8. **Minimize bodily motions when handling unpackaged replacement ES devices. (Otherwise hamless motion such as the brushing together of your clothes fabric or the lifting of your foot from a carpeted floor can generate static electricity (ESD) sufficient todamage an ES device).**

IMPORTANT SAFETY NOTICE

There are special components used in this equipment which are imporant for safety.
These parts are marked by ⚠ in the schematic diagrams, Exploded Views and replacement parts list. It is essential that these critical parts should be replaced with manufacturer's specified parts to prevent shock, fire, or other hazards. Do not modify the original design without permission of manufacturer.

3. About lead free solder (PbF)

Note: Lead is listed as (Pb) in the periodic table of elements.
In the information below, Pb will refer to Lead solder, and PbF will refer to Lead Free Solder.
The Lead Free Solder used in our manufacturing process and discussed below is (Sn+Ag+Cu).
That is Tin (Sn), Silver (Ag) and (Cu) although other types are available.
This model uses Pb Free solder in it's manufacture due to environmental conservation issues.
For service and repair work, we'd suggest the use of Pb free solder as well, although Pb solder may be used.
PCBs manufactured using lead free solder will have the PbF within a leaf Symbol

stamped on the back of PCB.

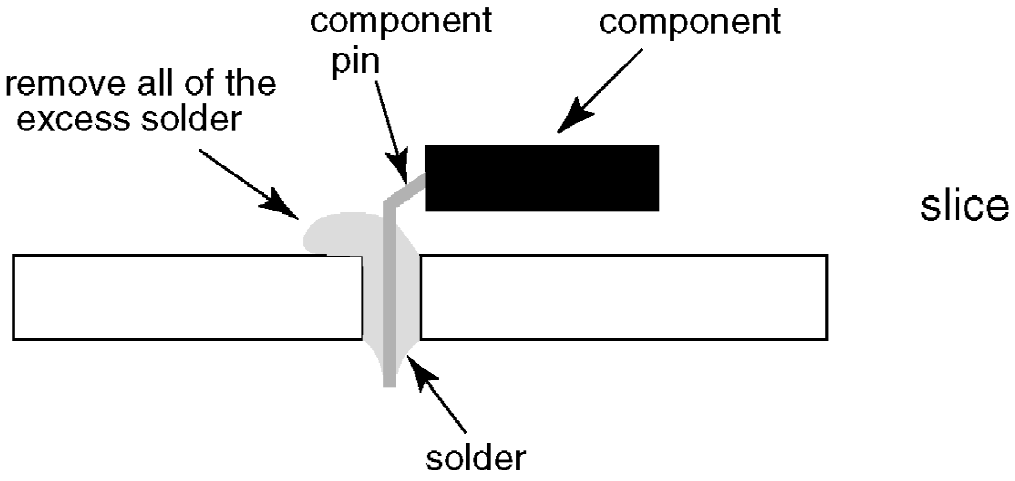
Caution

- Pb free solder has a higher melting point than standard solder. Typically the melting point is 50 ~ 70 ~F (30~40~C) higher. Please

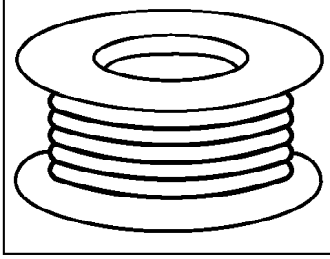
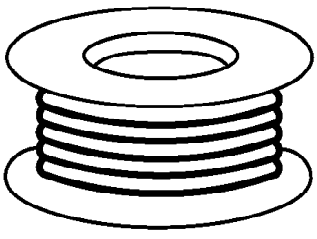
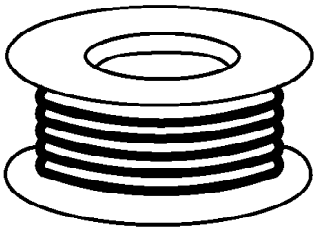
use a high temperature soldering iron and set it to 700 ± 20 ~F (370 ± 10 ~C).

- Pb free solder will tend to splash when heated too high (about 1100 ~F or600~C).
If you must use Pb solder, please completely remove all of the Pb free solder on the pins or solder area before applying Pb solder. If this is not practical, be sure to heat the Pb free solder until it melts, before applying Pb solder.

- After applying PbF solder to double layered boards, please check the component side for excess solder which may flow onto the opposite side. (see figure below)



Suggested Pb free solder
There are several kinds of Pb free solder available for purchase. This product uses Sn+Ag+Cu (tin, silver, copper) solder. However, Sn+Cu (tin, copper), Sn+Zn+Bi (tin, zinc, bismuth) solder can also beused.

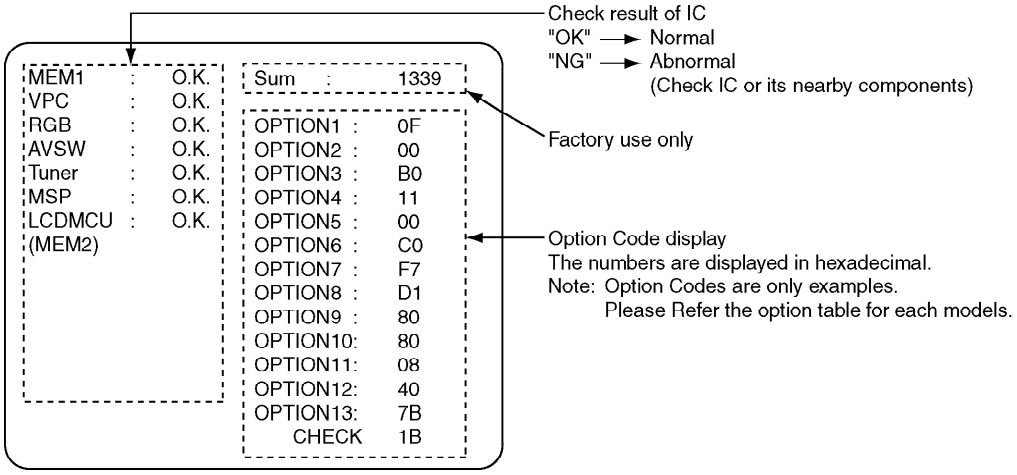
0.3mm X 100g	0.6mm X 100g	1.0mm X 100g
		

4. Self Check

1. Self-Check is used to automatically check the bus lines and

hexadecimal code of the TV set.

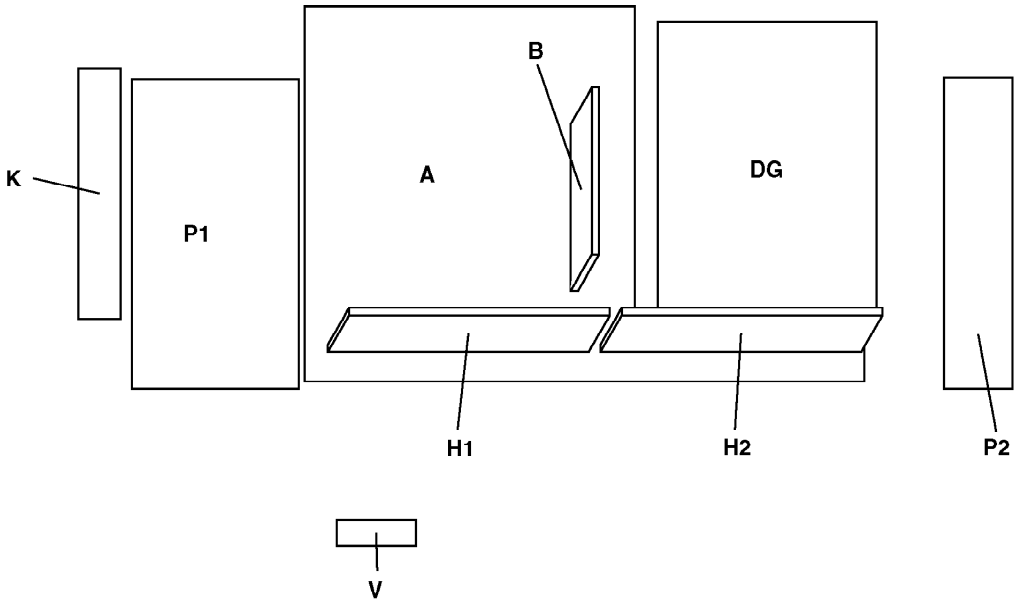
2. To get into the Self -Check mode press the Down (— / V) button on the customer controls at the front of the set, at the same time pressing the Recall button on the remote control, andthe screen will show :



If the CCU ports have been checked and found to be incorrect or not located then "--" will appear in place of "O.K.".

Display	Ref. No.	Description	P.C.B.
MEM1	IC1004	EEPROM	DG-Board
VPC	IC9001	Video Processor	DG-Board
RGB	IC9505	RGB Processor	DG-Board
AVSW	IC4002	AV switch	A-Board
Tuner	TNR001	Tuner	B-Board
MSP	IC2503	Multi Sound Processor	A-Board
LCDMCU	IC3002	LCD MCU	DG-Board

5. Chasis Board Layout



Board Name	Function
A - Board	Main (DC Power Supply,Audio,Micro Processor,Input Select)
B - Board	Tuner
DG - Board	Global Core,AMDP,RGB Processor
H1 - Board	DC Power Jack,AV Connector
H2 - Board	AV Connector
K - Board	Switch
P1 - Board	Back Light Inverter
P2 - Board	Back Light Inverter
V - Board	RM,LED

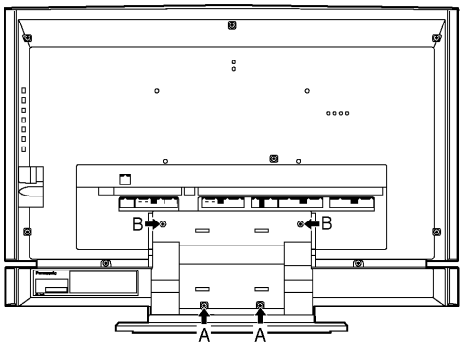
6. Servicing method

6.1. Removing tilt base

Remove the fixing screws A (2pcs).

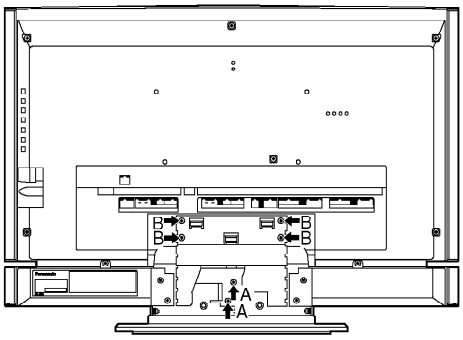
(1) Remove the fixing screws B (2pcs).

(2) Pull up the tilt cover (rear) in such a way as to turn its lower part upward with its upper part as a pivot. Remove the tilt cover while disengaging the hooks (4

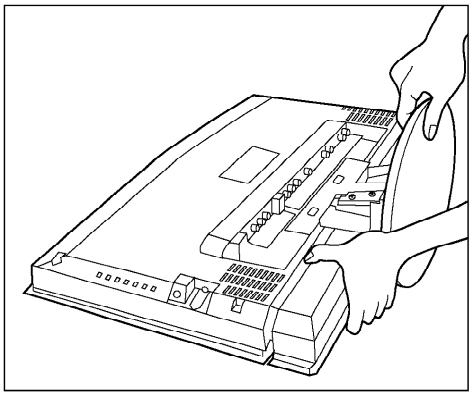


(3) Lay down the main unit so that the rear panel faces upward, and remove the fixing screws A (2pcs).

(4) Remove the fixing screws B (4pcs).



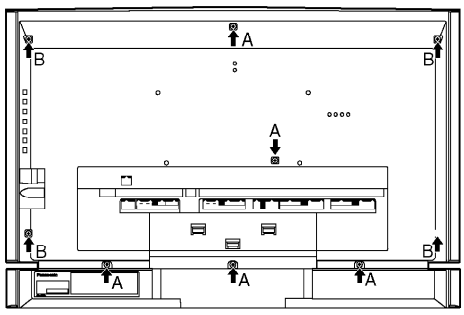
(5) While supporting the unit with hand, pull out the tilt base. Remove the tilt base while disengaging the hooks (3 locations).



6.2. Removing rear panel

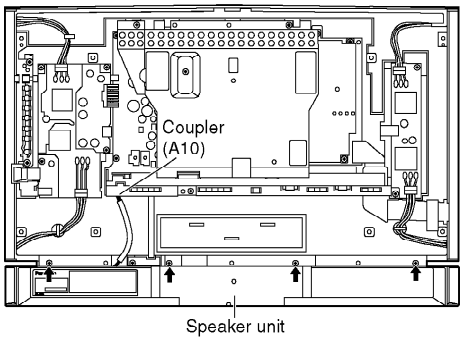
(1) Remove the tilt base. (See 5.1.)

(2) Remove the fixing screws A (5pcs) and B (4pcs), and detach the rear panel.



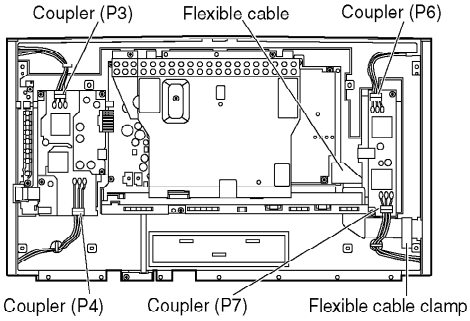
6.3. Removing speaker unit

(1) Remove the rear panel. (See 5.2.)
(2) Remove the fixing screws (4pcs).
(3) Disconnect the coupler (A10) and remove the speaker unit.

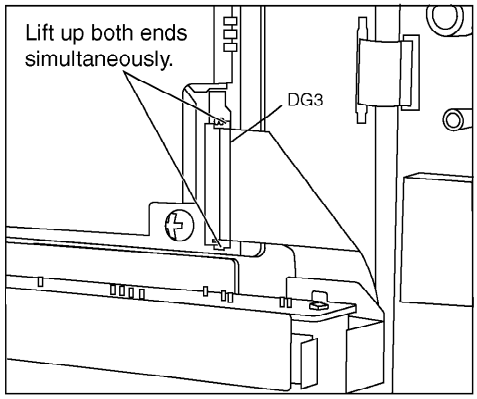


6.4. Removing chassis

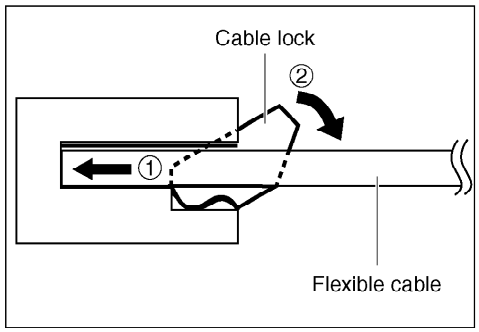
(1) Remove the speaker unit. (See 5.3.)
(2) Disconnect the couplers (P3, P4, P6 and P7).
(3) Disconnect the flexible cable, and unlock the flexible cable clamp to free the cable.



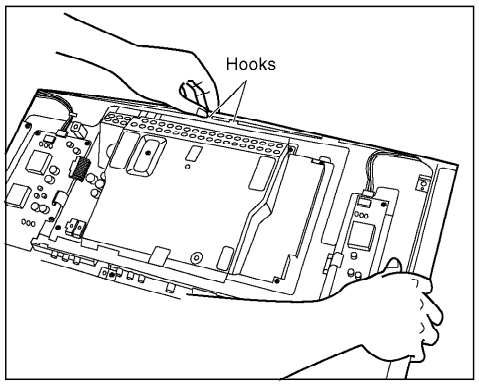
* Disconnecting flexible cable from the coupler
Lift up both ends of the cable lock (brown colored) simultaneously to release the locking. Once the flat cable is disconnected from the coupler, the cable lock tends to detach from the coupler easily. Due precaution should be paid on it.



* Reconnecting flexible cable to the coupler
Attach the cable lock (brown) to the coupler (white) with its both ends being pulled up. Insert the flat cable into the coupler over the cable lock until the cable stops firmly at the coupler end. Press down both ends of the cable lock until their upper faces are positioned flat to lock the cable.

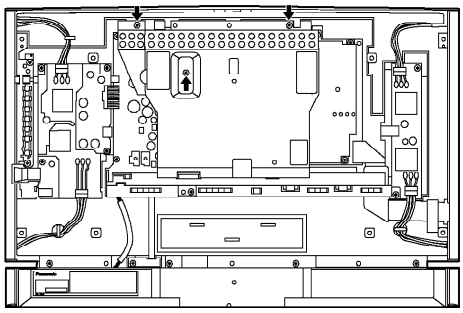


(4) As shown in the figure, remove the chassis while disengaging the two hooks at top center of the chassis from the front panel.
* The LCD panel is left lay on the front panel. (The LCD panel is easily removable.) Be careful not to damage the LCD panel.

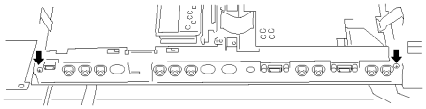


6.5. Removing A-Board

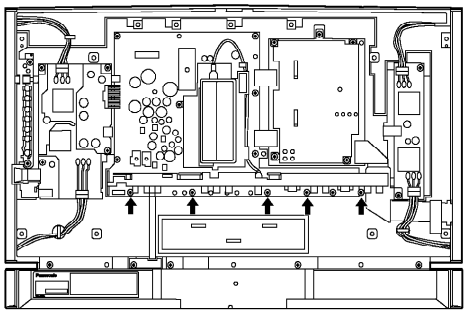
(1) Remove the rear panel. (See 5.2.)
(2) Remove the fixing screws (3pcs). Lift up the upper part of the main shield and detach it while disengaging the hooks (3 locations) at the lower part.



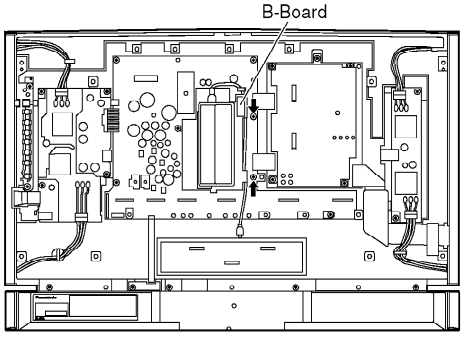
(3) Remove the fixing screws (2pcs), and dismount the terminal covers (both right and left).
* Pull up the terminal cover at the side unscrewed and disengage the hooks at the opposite to remove the terminal cover.



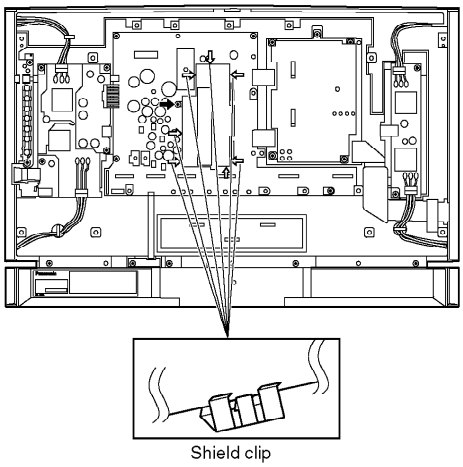
(4) Remove the fixing screws (5pcs).
(5) Lift the terminal block to remove while disconnecting the couplers (A12, A13, A14, A16 and A17) between the terminal block and the A-Board.
* Caution: Do not apply excessive force when disconnecting the couplers to prevent damage to the PCB.
(6) Disconnect the cable tied to the antenna terminal (rear side) of the terminal block, and remove the terminal block.



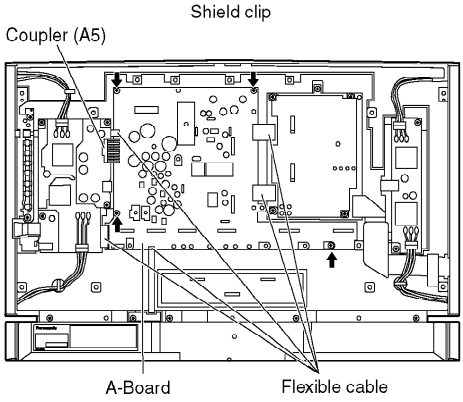
(7) Remove the fixing screws (2pcs). While disconnecting the couplers (A3 and A4) between the B-Board (with tuner assembly) and the A-Board, dismount the B-Board from the A-Board.
* Caution: Do not apply excessive force when disconnecting the couplers to prevent damage to the PCB.



(8) Remove the fixing screw (1pce). Detach the shield while disengaging the shield clips (7 locations).

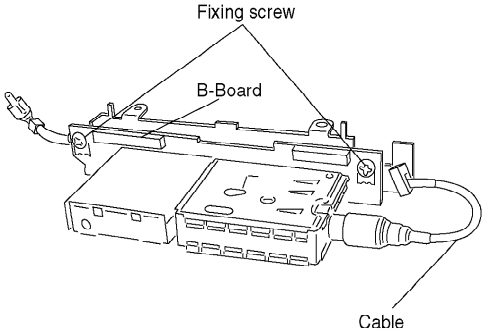


(9) Lift up the coupler (A5) by holding its projection to remove it (from P1).
(10) Disconnect the flexible cables (5 locations).
* When disconnecting, pull out the cable straight (perpendicular to the coupler face).
(11) Remove the fixing screws (4pcs) and dismount the A-Board.



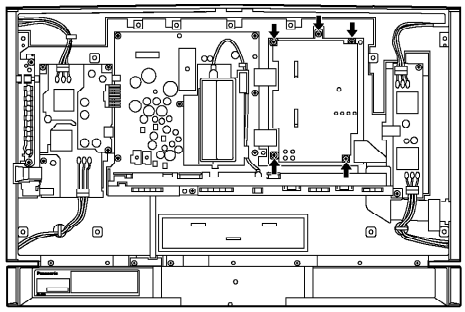
6.6. Removing B-Board (with tuner assembly)

(1) Disconnect the B-Board (with tuner assembly) with metal fitting. (See 5.5. procedures 1-2 and 6-7.)
(2) Remove the fixing screws (2pcs), and separate the B-Board (with tuner assembly).

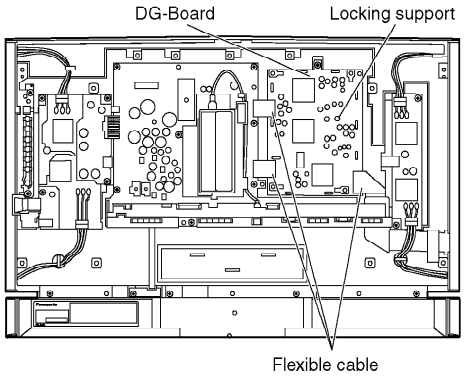


6.7. Removing DG-Board

(1) Remove the rear panel. (See 5.2.)
(2) Detach the main shield. (See 5.5. procedure 2.)
(3) Remove the fixing screws (5pcs), and detach the shield while releasing the shield clips (10 locations).

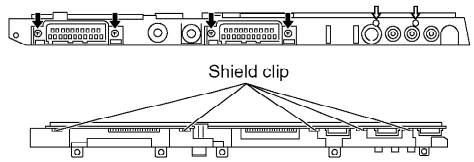


(4) Disconnect the flexible cables (3 locations).
* When disconnecting and reconnecting the flexible cables, refer to the notes in the procedure (3) in 5.4. Removing chassis.
When disconnecting the two flexible cables from the A-Board, pull out the cables straight (perpendicular to the coupler face).
(5) Unlock the locking support and remove the DG-Board.



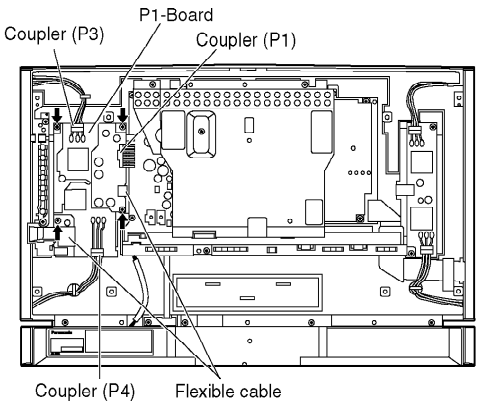
6.8. Removing H1-Board and H2-Board

(1) Remove the terminal block. (See 5.5. procedures 1-6.)
(2) Remove the fixing screws (4pcs/2pcs).
(3) Release the shield clips (4 locations) and dismount H1-Board.
(4) Release the shield clips (2 locations) and dismount H2-Board.



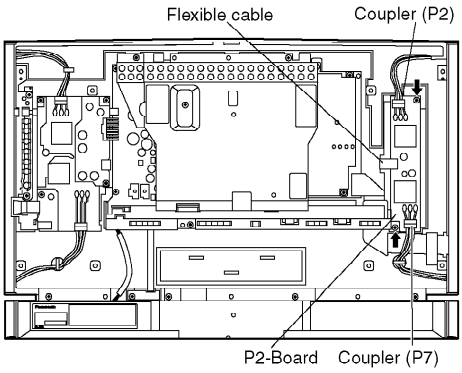
6.9. Removing P1-Board

(1) Remove the rear panel. (See 5.2.)
(2) Disconnect the couplers (P2, P3 and P4).
(3) Disconnect the flexible cables (2 locations).
(4) Detach the power button from the power switch.
(5) Remove the fixing screws (4pcs) and dismount P1-Board.



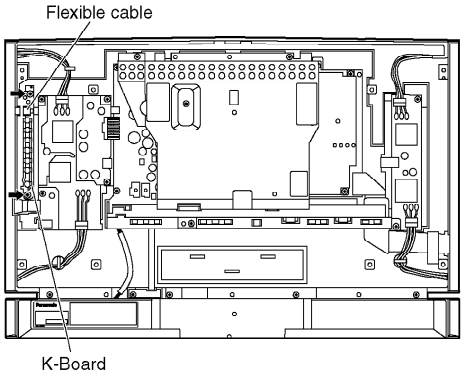
6.10. Removing P2-Board

(1) Remove the rear panel. (See 5.2.)
(2) Disconnect the couplers (P2 and P7).
(3) Disconnect the flexible cable.
(4) Remove the fixing screws (2pcs) and detach the shield and dismount P2-Board.



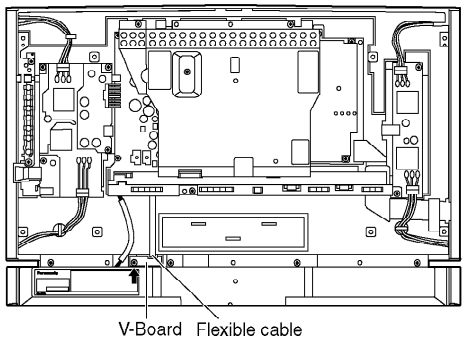
6.11. Removing K-Board

(1) Remove the rear panel. (See 5.2.)
(2) Remove the fixing screws (2pcs).
(3) Disconnect the flexible cable and dismount K-Board.



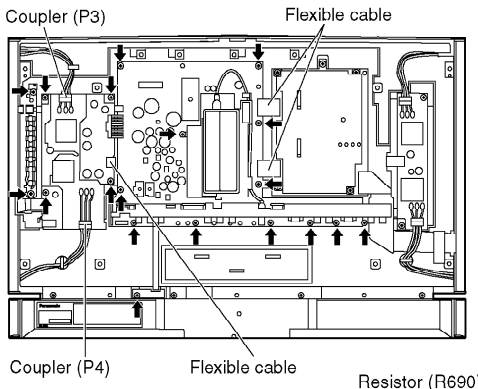
6.12. Removing V-Board

(1) Remove the rear panel. (See 5.2.)
(2) Remove the fixing screw (1pce).
(3) Disconnect the flexible cable and dismount V-Board.

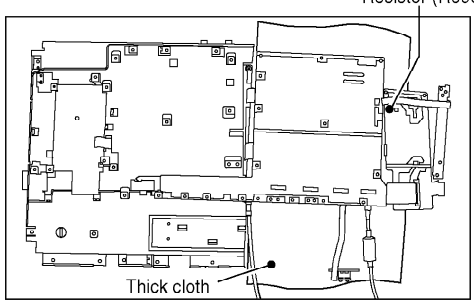


6.13. A-Board servicing

(1) Remove the rear panel, the main shield and the terminal covers (right and left). (See 5.5. procedures 1-3.)
(2) Remove the fixing screws (19pcs).
(3) Disconnect the couplers (P3 and P4) and the flexible cable (1 location) of P1-Board.
(4) Disconnect the flexible cables (2 locations) between the A-Board and the DG-Board.
* When disconnecting, pull out the cable straight (perpendicular to the coupler face).



(5) Cover the DG-Board with thick cloth for insulation and protection, and lay the main PCB and other PCBs upside down.
* The figure illustrates the status after chassis removal.
* The protection circuit is activated upon disconnection of the coupler P3. The above procedure will cancel the activation of the protection circuit.



7. Service Mode Function

MPU controls the functions switching for each IICs through IIC bus in this chassis. The following setting and adjustment can be adjusted by remote control in Service Mode.

7.1. How to enter SERVICE 1

1. **In sound menu, set BASS to MAX/MUM, and set TREBLE to MINIMUM.**
2. **Simultaneously press INDEX button on remote control and DOWN button [— / V] on the TV set.**

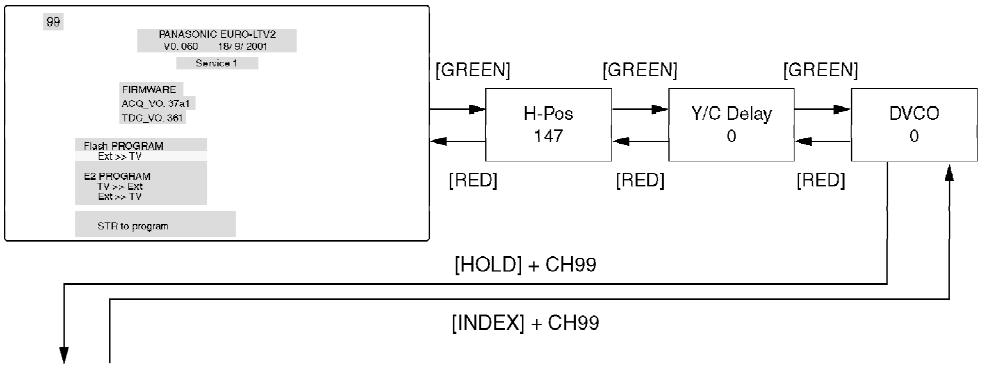
7.2. How to enter SERVICE 2

1. **Set the channel to CH99.**
2. **Press HOLD button on remote control.**

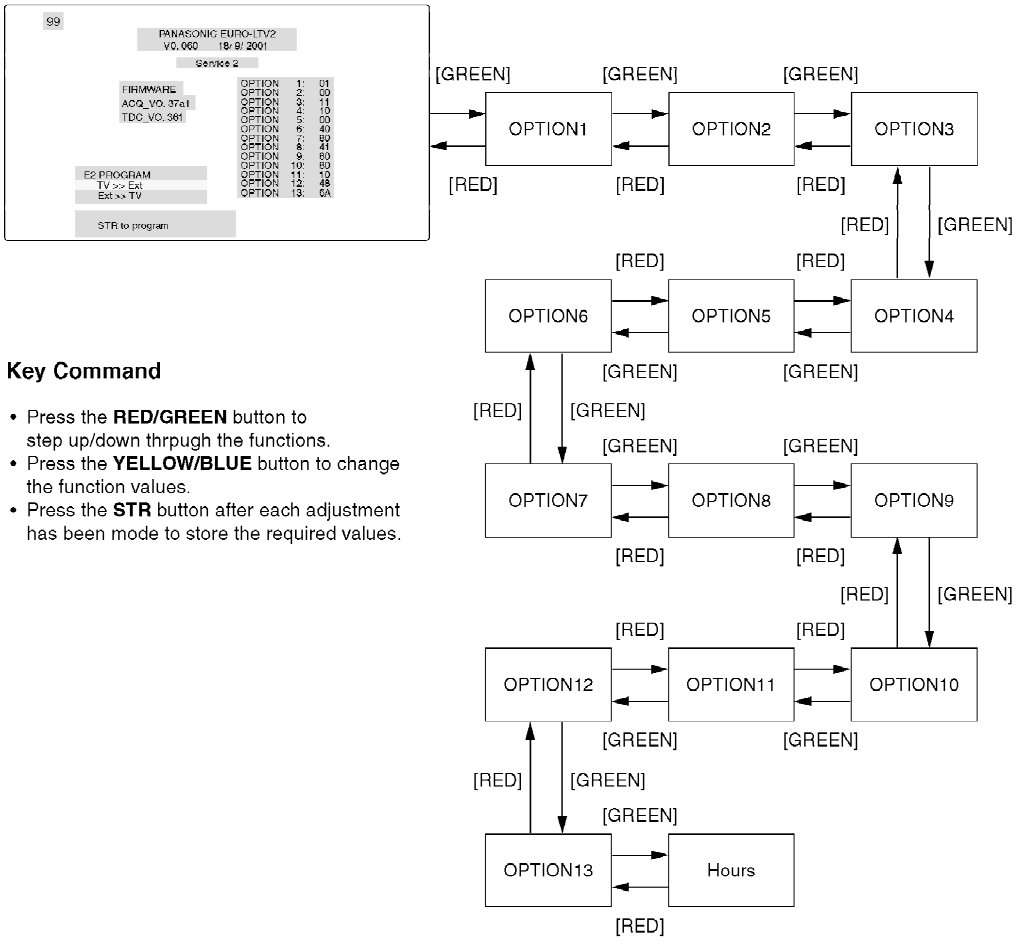
Note:

To exit to Service mode, press N or Power button on remote control.

SERVICE 1



SERVICE 2



Key Command

- Press the **RED/GREEN** button to step up/down thrpugh the functions.
- Press the **YELLOW/BLUE** button to change the function values.
- Press the **STR** button after each adjustment has been mode to store the required values.

7.3. Option Description

option1		0F		
	b0	1	Colour system	Auto(1)
	b1	1		SECAM(1)
	b2	1		NTSC(1)
	b3	1		M.NTSC(1)
	b4	0	TV NTSC 50	Reserved
	b5	0	TV SECAM 60	Reserved
	b6	0	AV NTSC 50	Reserved
	b7	0	AV SECAM 60	Reserved
option2		00		
	b0	0	(CH Plan)	set to 0
	b1	0		set to 0
	b2	0		set to 0
	b3	0		set to 0
	b4	0		set to 0
	b5	0		set to 0
	b6	0		set to 0
	b7	0		set to 0
option3		B0		
	b0	0	(sub picture)	set to 0
	b1	0	(2tuner)	set to 0
	b2	0	(VGA)	set to 0
	b3	0	(YUV)	set to 0
	b4	1	(Wide (16:9))	set to 0
	b5	1	HYPER	UHF only (0), UHF/VHF (1)
	b6	0	SIF	I only(0), BG only(1)
	b7	1		I/BG/DK/L(2), BG/DK(3)
option4		11		
	b0	1	A2 enable	enable(1)
	b1	0		set to 0
	b2	0		set to 0
	b3	0		set to 0
	b4	1	NICAM enable	enable(1)
	b5	0		set to 0
	b6	0		set to 0
	b7	0		set to 0
option5		C0		
	b0	0	(A2 select 6.5MHz)	set to 0
	b1	0	(NICAM priority)	set to 0
	b2	0		set to 0
	b3	0		set to 0
	b4	0		set to 0
	b5	0		set to 0
	b6	0		set to 0
	b7	0		set to 0
option6		C0		
	b0	0	(VCR/GAME in search)	Set to 0
	b1	0	(SASO enable)	set to 0
	b2	0	Noise mute	Noise mute enable(0)
	b3	0	Monitor out AV1 mute	Monitor out AV1 mute(1)
	b4	0	(AV SW 3/2AV out)	set to 0
	b5	0	Tuner	MACO tuner (0), ALPS tuner (1)
	b6	1	free	
	b7	1	free	
option7		F7		
	b0	1	Power up EC-Mode	Power on EC enable (1)
	b1	1	CH Blanking	Blanking enable (1)
	b2	1	AV Blanking	Blanking enable (1)
	b3	0	Auto WIDE	WSS enable only in aspect Auto (0), WSS always enable (1)
	b4	1	Volume correction	TV Volume correction enable (1)
	b5	1	AVLink	Q-Link on/off selectable in menu (1)
	b6	1	MPX/NICAM display	Display NICAM (0), Display MPX (1)
	b7	1	free	

option8		D1		
	b0	1	free	
	b1	0	(Geomagnetic Sensor)	set to 0
	b2	0	(Geomagnetic Polarity)	set to 0
	b3	0	RF Attenuation	Enable(1)
	b4	1	Fine tuning	Enable(1)
	b5	0	Search speed	Slow(1) Fast(0)
	b6	1	TEXT FLOF	Reserved
	b7	1	TEXT TOP	TOP enable (1)
option9		80		
	b0	0	free	
	b1	0	free	
	b2	0	free	
	b3	0	free	
	b4	0	free	
	b5	0	(Surround SP polarity)	set to 0
	b6	0	Volume curve	Volume curve1(0), curve2(1)
	b7	1	free	
option10		80		
	b0	0	free	
	b1	0	(OSD language)	set to 0
	b2	0		set to 0
	b3	0		set to 0
	b4	0	Blue Back	enable(0)
	b5	0	free	
	b6	0	free	
	b7	1	(Protect 5V detect)	set to 1
option11		08		
	b0	0	Shop mode	enable(1)
	b1	0	(DDM/Dynamic display)	set to 0
	b2	0	(Sub Headphone)	set to 0
	b3	1	Scan mode Blanking	Blanking enable (1)
	b4	0	User aspect 14:9	enable(1)
	b5	0	(NICAM C4 bit)	set to 0
	b6	0	(ID-1)	set to 0
	b7	0	(1080i)	set to 0
option12		40	**Area Option**	
	b0	0	(Asia)	set to 0
	b1	0	(Australia)	set to 0
	b2	0	Ireland	Ireland(1)
	b3	0	UK	UK(1)
	b4	0	(MELCOA)	set to 0
	b5	0	(28 inch)	set to 0
	b6	1	(Large size)	set to 1
	b7	0	(PTV)	set to 0
option13		7B	**Temporary**	
	b0	1	(VDU Version)	set to 0
	b1	1	(GC Version)	set to 1
	b2	0	(UV Swap)	set to 0
	b3	1	TEXT	Enable(1)
	b4	1	LT2 22inch	22inch(1), 15inch(0)
	b5	1	free	
	b6	1	(Picture Shift)	set to 1
	b7	0	(CIP2)	set to 0

8. Conductor Views

8.1. A-Board

8.2. B, H1, H2, K, P1 and P2-Board

8.3. DG-Board

9. Block and Schematic Diagrams

9.1. Schematic Diagram Notes

Important Safety Notice

Components identified by ⚠ mark have special characteristics important for safety.
When replacing any of these components, use only manufacture's specified parts.

Notes:

1. **Resistor**
   All resistors are cabon 1/4W resistor, unless marked as follows:
   Unit of resistance is OHM [Ω] (K=1,000, M=1,000,000).
   ○ : Nonflammable ⊠ : Metal Oxide
   △ : Solid ◎ : Metal Film
   ◿ : Wire Wound ⊗ : Fuse:
2. **Capacitor**
   All capacitors are ceramic 50V capacitor, unless marked as follows:
   Unit of capacitance is μF, unless otherwise noted.
   ⊗ : Temperature Compensation : Electrolytic
   Ⓜ : Polyester : Bipolar
   ⓜ : Metalized Polyester ⓣ : Dipped Tantalum
   ⊠ : Polypropylene ② : Z-Type
3. Coil
   Unit of inductance is μF, unless otherwise noted.
4. Test Point
   ○ : Test Point position
5. Earth Symbol
   # : Chassis Earth (Cold) : Line Earth (Hot)
6. Voltage Measurement
   Voltage is measured by a DC voltmeter.
   Conditions of the measurement are the following:
   Power Source ..... AC 110-240V, 50/60Hz
   Receiving Signal ..... Colour Bar signal (RF)
   All customer's controls ..... Maximum positions
7. Number in red circle indicates waveform nember.
   (See waveform pattern table.)
8. When arrow mark (↗) is found, connection is easily found from the direction of arrow
9. Indicates the major signal flow. : Video ➡ Audio ⇨
10. This schematic diagram is the latest at the time of printing and subject to change without notice.

Remarks:

1. The Power Circuit contains a circuit area which uses a separate power supply to isolate the earth connection.
   The circuit is defined by HOT and COLD indications in the schematic diagram. Take the follwing precautions.
   All circuits, except the Power Circuit, are cold.
   Precautions
   a. Do not touch the hot part or the hot and cold parts at the same time or you may be shocked.
   b. Do not short- circuit the hot and cold circuits or a fuse may blow and parts may break.
   c. Do not connect an instrument, such as an oscilloscope, to the hot and cold circuits simultaneously or a fuse may blow.
   Connect the earth of instruments to the earth connection of the circuit being measured.
   d. Make sure to disconnect the power plug before removing the chassis.
2. Following diodes are interchangeable.
   MA150- MA162 (Replacement part)

9.2. Power Block Diagram

9.3. Signal Block Diagram

9.4. Interconnection Schematic Diagram

9.5. A-Board (1 of 7) and H1-Board Schematic Diagram

9.6. A-Board (2 of 7) and H2-Board Schematic Diagram

9.7. A-Board (3 of 7) Schematic Diagram

9.8. A-Board (4 of 7), B-Board, K-Board and V-Board Schematic Diagram

9.9. A-Board (5 of 7), P1-Board and P2-Board Schematic Diagram

9.10. A-Board (6 of 7) and P1-Board Schematic Diagram

9.11. A-Board (7 of 7) Schematic Diagram

9.12. DG-Board (1 of 7) Schematic Diagram

9.13. DG-Board (2 of 7) Schematic Diagram

9.14. DG-Board (3 of 7) Schematic Diagram

9.15. DG-Board (4 of 7) Schematic Diagram

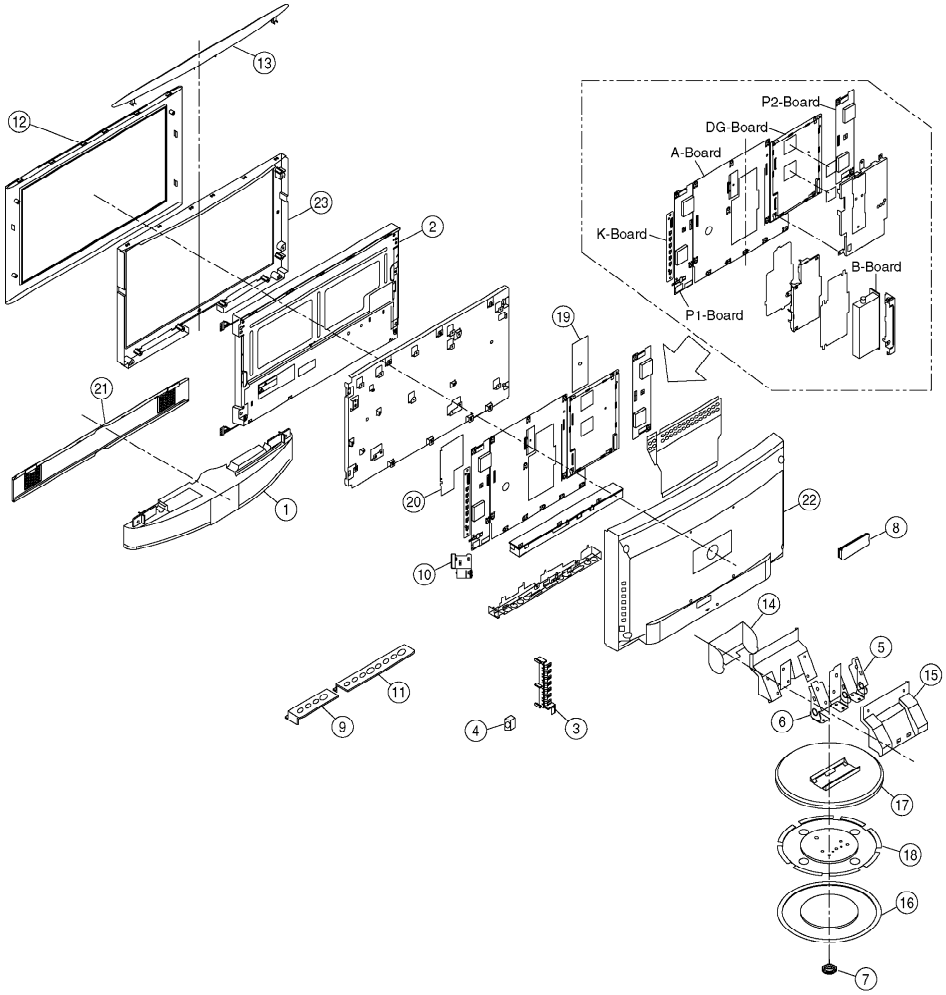
9.16. DG-Board (5 of 7) Schematic Diagram

9.17. DG-Board (6 of 7) Schematic Diagram

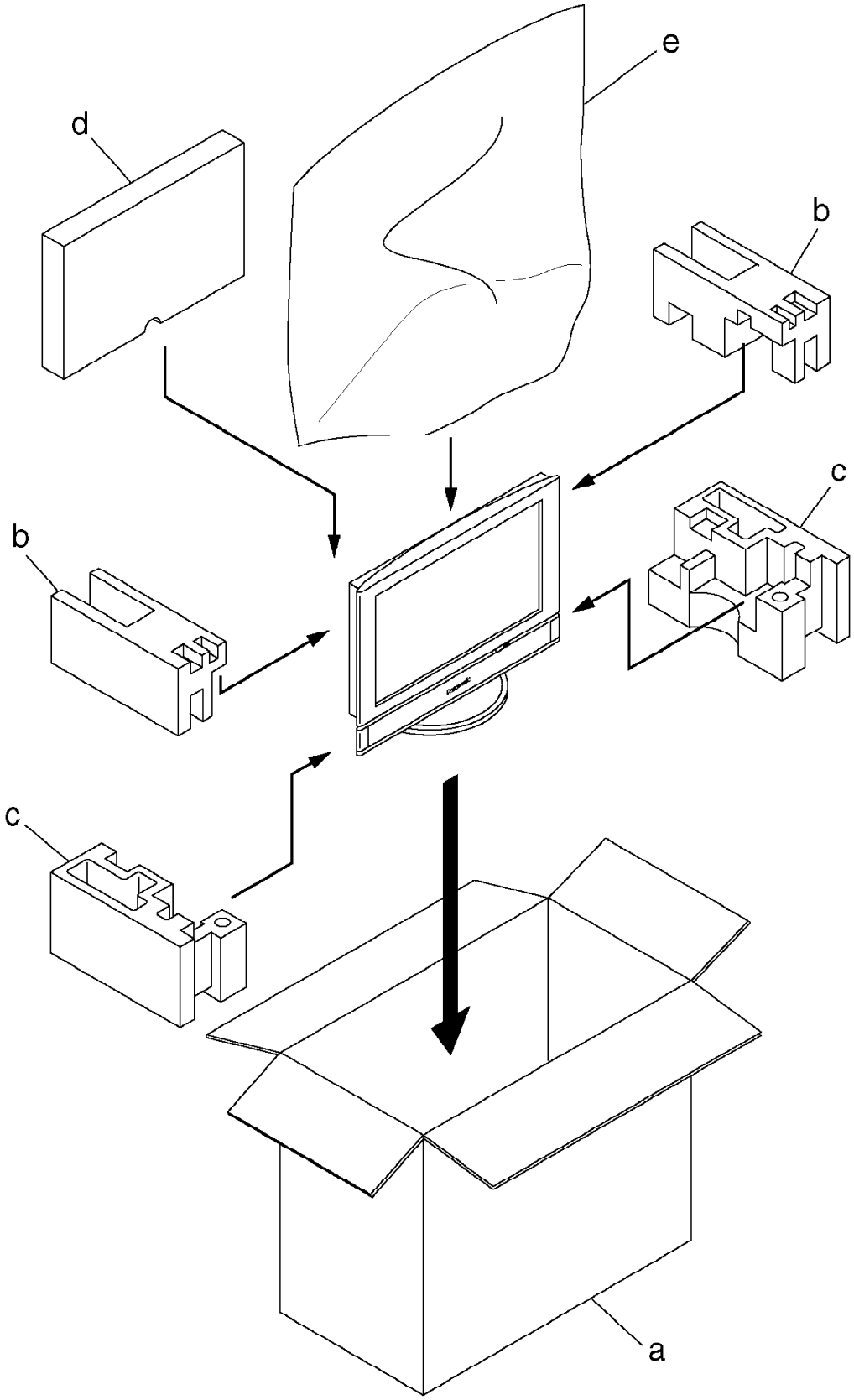
9.18. DG-Board (7 of 7) Schematic Diagram

10. Parts Location & Mechanical Replacement Parts List

10.1. Parts Location



10.2. Packing Exploded View



10.3. Mechanical Replacement Parts List

IMPORTANT SAFETY NOTICE

COMPONENTS IDENTIFIED BY ⚠ MARK HAVE SPECIAL CHARACTERISTICS IMPORTANT FOR SAFETY.
WHEN REPLACING ANY OF THESE COMPONENTS, USE ONLY MANUFACTURER'S SPECIFIED PARTS.

⚠ AC ADAPTOR PARTS NO. NOJZHK000007 REPLACE TO NEW AC ADAPTOR WHEN BROKEN

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
1	EAB719A0	SPEAKER UNIT	1	
2	EDTCF08QAFZ4	LCD PANEL	1	⚠EDTCF08QAFZ2
	EUR511252	REMOCON TRANSMITTER	1	
	J0KD00000056	EMI FILTER	1	
	K1SZBDBA0002	IEC JACK	1	
	K1TZA9D00090	IF CABLE	1	
	K2CR2DA00006	AC CORD	1	⚠
	N0JZHK000007	AC ADAPTER	1	⚠
	TBME643	MODEL NAME PLATE	1	⚠
3	TBXA27802	CONTROL BUTTON	1	
4	TBXA29402	POWER BUTTON	1	
5	TEJA033	CHILD SHAFT(LEFT)	1	
6	TEJA034	CHILD SHAFT(RIGHT)	2	
7	TEJF016	SHAFT	1	
	TESA140	SPRING	2	
	TESA172	SPRING	1	
	THTA025	SCREW	4	
	THTF002U	SCREW	4	
	THW70035Y	WASHER	1	
	TKKC5104	LED TREND SHAFT	1	
8	TKKL5141-1	CONNECTOR COVER	1	
	TKKL5142	RECEIVER COVER	1	
9	TKKL5145	TERMINAL COVER(RIGHT)	1	
10	TKKL5147-1	JACK BRACKET	1	
11	TKKL5210	TERMINAL COVER(LEFT)	1	
12	TKPA46006	FRONT PANEL	1	
13	TKPA46201	TOP COVER	1	
14	TKXA10101	CHILD COVER(FRONT)	1	
15	TKXA10202	CHILD COVER	1	
16	TKXA10301	PLATE	1	
17	TKXA10401	COVER	1	
18	TKZG5025	CHILD BASE	1	
	TMKA202	CUSHION	2	
	TMKA202	CUSHION	1	
	TMKE161	INSULATOR	1	
19	TMKE163	INSULATOR(RIGHT)	1	
20	TMKE164	INSULATOR(LEFT)	1	
	TMKG254	CUSHION	2	
	TMKG255	CUSHION	1	
	TMKG321	RUBBER SPACER	1	
	TMKK039-1	SET LEG	6	
	TMKK096	SPACER	1	
	TMKX291	INSULATOR	1	
	TMKX364	INSULATOR	1	
	TMME149	CLAMPER	4	
	TMME149	CLAMPER	1	
	TMME150	INSULATOR	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
	TMME157	CLAMPER	2	
	TMWJ023	BRACKET	1	
a	TPCB06406	CARTON BOX	1	⚠
b	TPDA0479	CUSHION(TOP)	1	
c	TPDA0480	CUSHION(BOTTOM)	1	
d	TPDF0551	ACCESSORY BOX	1	
e	TPE814109-3	SET COVER	1	
	TQBC0388	INSTRUCTION BOOK(ENGLISH)	1	⚠
	TQBC0389	INSTRUCTION BOOK(GERMAN)	1	⚠
	TQBC0390	INSTRUCTION BOOK(FRENCH)	1	⚠
	TQBC0391	INSTRUCTION BOOK(ITALIAN)	1	⚠
	TQBC0392	INSTRUCTION BOOK(SPANISH)	1	⚠
	TQBC0393	INSTRUCTION BOOK(DUTCH)	1	⚠
	TQBC0394	INSTRUCTION BOOK(DANISH)	1	⚠
	TQBC0395	INSTRUCTION BOOK(SWEDISH)	1	⚠
	TQE8513-2	POLY BAG	1	
	TSXL155	CABLE(6P)	1	
	TSXL158	CABLE(5P)	1	
	TSXL160	CABLE(10P)	1	
	TSXL161	CABLE(50P)	1	
	TSXL195	CABLE(36P)	1	
	TSXL196	CABLE(50P)	1	
	TSXL197	CABLE(17P)	1	
21	TTPA0159-2	SPEAKER PANEL ASS'Y	1	
22	TXFKU010GLK	REAR COVER ASS'Y	1	⚠
23	TXFKY010GCK	FRONT CABINET ASS'Y	1	⚠
	XNHTHN2943-1	F TERMINAL NUT	1	
	XTB4+10F	SCREW	1	
	XTB4+12J	SCREW	2	
	XTB4+12JFY	SCREW	2	
	XTB4+16J	SCREW	4	
	XTB4+20JFY	SCREW	5	
	XTB4+30JFY	SCREW	4	
	XTN3+8J	SCREW	4	
	XTN3+8JFY	SCREW	6	
	XTS3+10AFY	SCREW	5	
	XTV3+10G	SCREW	4	
	XTV3+8J	SCREW	2	
	XTW3+6T	SCREW	2	
	XTW3+6T	TAPPING SCREW	29	
	XYN4+F12	SCREW	6	
	XZBT6506	POLY BAG	1	

11. Replacement Parts List

11.1. Replacement Parts List Notes

Important Safety Notice

Components identified by ⚠ mark have special characteristics important for safety.
When replacing any of these components, use only manufacturer's specified parts.

RTL (Retention Time Limited)

Note: The marking (RTL) indicates that the Retention Time is Limited for this item.
After the discontinuation of this assembly in production, the item will continue to be available for a specific period of time. The retention period of availability is dependant on the type of assembly, and in accordance with the laws governing part and product retention.
After the end of this period, the assembly will no longer be available.

Abbreviation of part name and description

1. Resistor

Example:

ERD25TJ104 C 100KOHM, J, 1/4W
Type Allowance

Type	Allowance
C : Carbon	F : ±1%
F : Fuse	G : ±2%
M : Metal Oxide Metal FIlm	J : ±5%
S : Solid	K : ±10%
W : Wire Wound	M : ±20%

2. Capacitor

Example:

ECKF1H103ZF C 0.01UF, Z, 50V
Type Allowance

Type	Allowance
C : Ceramic	C : ±0.25pF
E : Electrolytic	D : ±0.5pF
P : Polyester Polyprop lene	F : ±1pF
	G : ±3pF
	J : ±5pF
T : Tantalum	K : ±10pF
	L : ±15pF
	M : ±20pF
	P : +100%, -0%
	Z : +80%, -20%

11.2. Electrical Replacement Parts List

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
A1	K1MN36A00006	36P CONNECTOR	1	
A2	K1MN50A00005	50P CONNECTOR	1	
A3	K1KA14A00127	14P CONNECTOR	1	
A4	K1KA10A00263	10P CONNECTOR	1	
A5	TJS5A9180	10P CONNECTOR	1	K1KA10A00215
A6	K1MN06A00002	6P CONNECTOR	1	
A7-A9	K4ZZ01000128	TERMINAL	3	
A10	TJS1A8120	6P CONNECTOR	1	K1KA06B00049
A11	K1MN05B00031	5P CONNECTOR	1	
A12,13	K1KB14A00041	14P CONNECTOR	2	
A14	K1KB12A00074	12P CONNECTOR	1	
A16,17	K1KA20A00202	20P CONNECTOR	2	
A18	K1MN17A00028	17P CONNECTOR	1	
B1	K1KB14B00026	14P CONNECTOR	1	
B2	K1KB10B00042	10P CONNECTOR	1	
C001	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C002	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C004	EEVHB1C470	E 47UF, 16V	1	EEVHB1C470P
C005	ECJ2VF1H223Z	C 0.022UF, Z, 50V	1	
C008	ECJ2VB1C104K	C 0.1UF, K, 16V	1	
C009	EEVHB1C470	E 47UF, 16V	1	EEVHB1C470P
C010	EEVHB1H4R7	E 4.7UF, 50V	1	
C011	ECJ2VB1C104K	C 0.1UF, K, 16V	1	
C012	EEVHB1C470	E 47UF, 16V	1	EEVHB1C470P
C013	EEVHB0J101	E 100UF, 6.3V	1	EEVHB0J101P
C014	EEVHB1H4R7	E 4.7UF, 50V	1	
C016-18	ECJ2VF1C104Z	C 0.1UF, Z, 16V	3	
C022	F1K1H1050002	C 1UF, Z, 50V	1	
C023,24	ECJ2VF1C104Z	C 0.1UF, Z, 16V	2	
C025	F1K1C4750010	C 47UF, Z, 50V	1	
C030	ECJ2VB1H273K	C 0.027UF, K, 50V	1	
C031	ECJ2VF1H103Z	C 0.01UF, Z, 50V	1	
C032	EEVHB0J470	E 47UF, 6.3V	1	
C601	ECJ2VF1H104Z	C 0.1UF, Z, 50V	1	
C602	ECJ2XF1H102Z	C 1000PF, Z, 50V	1	
C603	ECA1EHG101	E 100UF, 25V	1	
C604	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C607	ECJ2XC1H331J	C 330PF, J, 50V	1	
C608,09	ECJ2XB1C334K	C 0.33UF, K, 16V	2	
C610,11	ECJ2XB1H103K	C 0.01UF, K, 50V	2	
C612	ECA1EHG101	E 100UF, 25V	1	
C613	F2A1E1010030	E 100UF 25V	1	
C614	ECJ3XF1E105Z	C 1UF, Z, 25V	1	
C615,16	ECHU1H104JC9	P 0.1UF. 50V	2	
C617,18	ECJ2XB1H562K	C 5600PF, K, 50V	2	
C620,21	ECJ2XB1H562K	C 5600PF, K, 50V	2	
C625,26	ECHU1H563JC9	P 0.056UF. 50V	2	
C629,30	ECHU1H563JC9	P 0.056UF. 50V	2	
C631,32	ECJ2XF1C334Z	C 0.33UF, Z, 16V	2	
C633-38	F1A3F1500001	E 15UF, 3KV	6	
C680	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C681,82	F2A1E1010030	E 100UF 25V	2	
C683-88	F1A3F1500001	E 15UF, 3KV	6	
C689,90	ECJ2XF1C334Z	C 0.33UF, Z, 16V	2	
C691	F2A1H100A126	E 10UF, 50V	1	
C801	ECJ2XB1H103K	C 0.01UF, K, 50V	1	
C802	ECA1EHG471	E 470UF, 25V	1	
C806	F2A1C6810005	E 680UF, 16V	1	
C807	ECJ2VF1H103Z	C 0.01UF, Z, 50V	1	
C808	ECJ2XB1H222K	C 2200PF, K, 50V	1	
C810	ECJ2XB1H104K	C 0.1UF, K, 50V	1	
C811	ECJ2VF1H104Z	C 0.1UF, Z, 50V	1	
C814	ECJ2XB1H104K	C 0.1UF, K, 50V	1	
C815	EEVHB1C100	E 10UF, 16V	1	
C817	ECJ2VF1H104Z	C 0.1UF, Z, 50V	1	
C818,19	EEVHB0J220	E 22UF 6.3V	2	
C823	EEVHB0J470	E 47UF, 6.3V	1	
C824,25	ECJ2XB1H103K	C 0.01UF, K, 50V	2	
C826,27	ECA1EHG471	E 470UF, 25V	2	
C828	ECJ2XB1H103K	C 0.01UF, K, 50V	1	
C829	ECA1VHG221	E 220UF, 35V	1	
C830,31	F2A1C6810005	E 680UF, 16V	2	
C832	ECJ2XB1H222K	C 2200PF, K, 50V	1	
C833,34	ECJ2XB1H103K	C 0.01UF, K, 50V	2	
C835	ECJ2XB1H222K	C 2200PF, K, 50V	1	
C836	F2A1C102A123	E 1000UF,@ 16V	1	
C837	ECJ2XB1H104K	C 0.1UF, K, 50V	1	
C838	ECJ2XB1H103K	C 0.01UF, K, 50V	1	
C839	F2A1E1020019	E 1000UF, 25V	1	
C840	ECJ2XB1H104K	C 0.1UF, K, 50V	1	
C841	ECA1EHG101	E 100UF, 25V	1	
C842	ECJ2XB1H103K	C 0.01UF, K, 50V	1	
C843	ECA1VHG221	E 220UF, 35V	1	
C844	EEVHB1C220	E 22UF, 16V	1	EEVHB1C220R
C845	EEVHB0J220	E 22UF 6.3V	1	
C846	F2A1C6810005	E 680UF, 16V	1	
C847	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C848	ECJ2XB1H102K	C 1000PF, K, 50V	1	
C849	ECJ2XB1H103K	C 0.01UF, K, 50V	1	
C850	EEVHB0J220	E 22UF 6.3V	1	
C851	EEVHB1C100	E 10UF, 16V	1	
C852	EEVHB0J220	E 22UF 6.3V	1	
C901-04	ECJ1VF1C104Z	C 0.1UF, Z, 16V	4	
C1001	EEVHB1C470	E 47UF, 16V	1	EEVHB1C470P
C1002	EEVHB0J101	E 100UF, 6.3V	1	EEVHB0J101P
C1003	ECJ1VF1A105Z	C 1UF, Z, 10V	1	
C1004-07	ECJ1VF1C104Z	C 0.1UF, Z, 16V	4	
C1009	EEVHB0J101	E 100UF, 6.3V	1	EEVHB0J101P
C1011	ECJ1VF1C104Z	C 0.1UF, Z, 16V	1	
C1012	ECJ1XF1H103Z	C 0.01UF, Z, 50V	1	ECJ1VF1H103Z
C1014	EEVHB1C100	E 10UF, 16V	1	
C1015	EEVHB0J101	E 100UF, 6.3V	1	EEVHB0J101P
C1017,18	ECJ1VF1C104Z	C 0.1UF, Z, 16V	2	
C1019	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C1020	EEVHB1C100	E 10UF, 16V	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C1022	ECJ1XF1H103Z	C 0.01UF, Z, 50V	1	ECJ1VF1H103Z
C1024	ECJ1VF1C104Z	C 0.1UF, Z, 16V	1	
C1025	EEVHB0J101	E 100UF, 6.3V	1	EEVHB0J101P
C1026	ECJ1VB1C104K	C 0.1UF, K, 16V	1	
C1028	ECJ1XC1H151J	C 150PF, J, 50V	1	
C1030-33	ECJ1VF1C104Z	C 0.1UF, Z, 16V	4	
C1034	ECJ1XC1H220J	C 22PF, J, 50V	1	
C1035	ECJ1VF1C104Z	C 0.1UF, Z, 16V	1	
C1036	ECJ1XC1H220J	C 22PF, J, 50V	1	
C1038	ECJ1VF1C104Z	C 0.1UF, Z, 16V	1	
C1040	ECJ1VB1H221K	C 220UF, K, 50V	1	
C1041	ECJ1VF1C104Z	C 0.1UF, Z, 16V	1	
C1042	ECJ1VB1H221K	C 220UF, K, 50V	1	
C1043-47	ECJ1VF1C104Z	C 0.1UF, Z, 16V	5	
C1049	ECJ1VF1C104Z	C 0.1UF, Z, 16V	1	
C1051	EEVHB1C100	E 10UF, 16V	1	
C1054,55	ECJ1VF1A105Z	C 1UF, Z, 10V	2	
C1056	EEVHB0J101	E 100UF, 6.3V	1	EEVHB0J101P
C1057-59	ECJ2VF1C104Z	C 0.1UF, Z, 16V	3	
C1060,61	ECJ1VF1C104Z	C 0.1UF, Z, 16V	2	
C1062-64	ECJ2VF1C104Z	C 0.1UF, Z, 16V	3	
C1065-69	ECJ1VB1H102K	C 1000PF, K, 50V	5	
C1070-76	ECJ1XC1H271J	C 270PF, J, 50V	7	
C1077	F1J1A1050020	C 1UF, Z, 50V	1	
C2311	EEVHB1E4R7	E 4.7UF, 25V	1	
C2312	ECJ2XB1H822K	C 8200PF, K, 50V	1	
C2313	F2A1E332A104	E 3300PF, 25V	1	
C2315,16	ECJ2YB1E224K	C 0.22UF, K, 25V	2	
C2359,60	EEVHB1E4R7	E 4.7UF, 25V	2	
C2361	ECA1EHG101	E 100UF, 25V	1	
C2362	EEVHB1HR33	E 0.33UF, 25V	1	
C2363	ECJ2VF1H104Z	C 0.1UF, Z, 50V	1	
C2364	F2A1H101A128	E 100UF, 50V	1	
C2366	ECJ2YB1E224K	C 0.22UF, K, 25V	1	
C2367	F2A1H101A128	E 100UF, 50V	1	
C2368	ECJ2YB1E224K	C 0.22UF, K, 25V	1	
C2369,70	ECJ2XB1H822K	C 8200PF, K, 50V	2	
C2371	ECJ2YB1E224K	C 0.22UF, K, 25V	1	
C2372	F2A1E332A104	E 3300PF, 25V	1	
C2373	ECJ2YB1E224K	C 0.22UF, K, 25V	1	
C2381	ECJ2XB1H103K	C 0.01UF, K, 50V	1	
C2502,03	ERJ6GEYJ101	M 100 OHM,J,1/10W	2	D0GD101JA016
C2504	EEVHB0J101	E 100UF, 6.3V	1	EEVHB0J101P
C2509	ECJ2XF1C334Z	C 0.33UF, Z, 16V	1	
C2513	EEVHB1C100	E 10UF, 16V	1	
C2523	EEVHB1C100	E 10UF, 16V	1	
C2524	ECJ2XB1H103K	C 0.01UF, K, 50V	1	
C2527	EEVHB1C100	E 10UF, 16V	1	
C2528,29	EEVHB1E4R7	E 4.7UF, 25V	2	
C2531	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C2534-36	EEVHB1E4R7	E 4.7UF, 25V	3	
C2537,38	ECJ2XB1H103K	C 0.01UF, K, 50V	2	
C2539,40	ECJ2XB1H472K	C 4700PF, K, 50V	2	
C2541-43	ECJ2XB1H102J	C 1000PF, J, 50V	3	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C2544,45	ECJ2XB1H103K	C 0.01UF, K, 50V	2	
C2546	EEVHB1C100	E 10UF, 16V	1	
C2547	ECJ2VB1C104K	C 0.1UF, K, 16V	1	
C2548	EEVHB1C100	E 10UF, 16V	1	
C2549	EEVHB1C470	E 47UF, 16V	1	EEVHB1C470P
C2550	EEVHB1H3R3	E 4.7UF, 25V	1	EEVHB1H3R3R
C2552	ECJ2VB1C104K	C 0.1UF, K, 16V	1	
C2553	EEVHB1C220	E 22UF, 16V	1	EEVHB1C220R
C2554	ECJ2VB1C104K	C 0.1UF, K, 16V	1	
C2555,56	ECJ2VF1C105Z	C 1UF, Z, 16V	2	
C2557	EEVHB0J101	E 100UF, 6.3V	1	EEVHB0J101P
C2558,59	ECJ2VF1C105Z	C 1UF, Z, 16V	2	
C2560	ECJ2VB1C104K	C 0.1UF, K, 16V	1	
C2561	ECA1EHG101	E 100UF, 25V	1	
C2562	EEVHB1C100	E 10UF, 16V	1	
C2563	ECJ3VB1C474K	C 0.47UF, K, 16V	1	
C2564,65	ECA1EHG101	E 100UF, 25V	2	
C2566	ECJ2XC1H470J	C 47PF, J, 50V	1	ECUM1H470JCN
C2567	ECJ2VB1C104K	C 0.1UF, K, 16V	1	
C2569	ECJ2XC1H070C	C 0.07PF, C, 50V	1	
C2570,71	ECJ2XC1H010C	C 1PF, C, 50V	2	ECUM1H010CCN
C2572,73	ECJ2XC1H560J	C 56PF, J, 50V	2	ECUM1H560JCN
C2575	ECJ2XC1H470J	C 47PF, J, 50V	1	ECUM1H470JCN
C2576,77	ECJ2XB1H104K	C 0.1UF, K, 50V	2	
C2581-88	ECJ2XB1H561K	C 560PF, K, 50V	8	
C3001,02	ECJ1VF1C104Z	C 0.1UF, Z, 16V	2	
C3003	EEVHB0J101	E 100UF, 6.3V	1	EEVHB0J101P
C3004	ECJ1VB1H103K	C 0.01UF, K, 50V	1	
C3005	ECJ1VF1C104Z	C 0.1UF, Z, 16V	1	
C3006-08	ECJ1XF1H103Z	C 0.01UF, Z, 50V	3	ECJ1VF1H103Z
C3009,10	ECJ1XC1H150J	C 15PF, J, 50V	2	
C3011,12	ECJ1XC1H220J	C 22PF, J, 50V	2	
C3014	ECJ1VB1C104K	C 0.1UF, K, 16V	1	
C3015	ECJ1VF1C104Z	C 0.1UF, Z, 16V	1	
C4001	ECJ2XB1H271K	C 270PF, K, 50V	1	
C4002	ECJ2XB1H561K	C 560PF, K, 50V	1	
C4003	ECJ2XB1H271K	C 270PF, K, 50V	1	
C4004	ECJ2XB1H561K	C 560PF, K, 50V	1	
C4005,06	ECJ2XB1H271K	C 270PF, K, 50V	2	
C4007,08	ECJ3XB0J106M	C 10UF, M,6.3V	2	
C4009,10	ECJ2VF1C105Z	C 1UF, Z, 16V	2	
C4011	ECJ1VB1H103K	C 0.01UF, K, 50V	1	
C4012	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C4013	EEVHB1C220	E 22UF, 16V	1	EEVHB1C220R
C4014	ECJ1VB1H103K	C 0.01UF, K, 50V	1	
C4015	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C4018-23	ECJ2VF1C105Z	C 1UF, Z, 16V	6	
C4025	ECJ2XB1H102K	C 1000PF, K, 50V	1	
C4027-30	ECJ2VF1C105Z	C 1UF, Z, 16V	4	
C4031	ECJ2XB1H102K	C 1000PF, K, 50V	1	
C4032,33	ECJ2VF1C105Z	C 1UF, Z, 16V	2	
C4037,38	ECJ2VF1C105Z	C 1UF, Z, 16V	2	
C4041	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C4042	EEVHB1C100	E 10UF, 16V	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C4043	EEVHB1C470	E 47UF, 16V	1	EEVHB1C470P
C4044	ECJ1VB1H103K	C 0.01UF, K, 50V	1	
C4045-48	ECJ2VF1C105Z	C 1UF, Z, 16V	4	
C4055-58	ECJ2XB1H102K	C 1000PF, K, 50V	4	
C4063	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C4200	ECJ2XB1H271K	C 270PF, K, 50V	1	
C4201	ECJ2XB1H561K	C 560PF, K, 50V	1	
C4202	ECJ2XB1H271K	C 270PF, K, 50V	1	
C4203	ECJ2XB1H561K	C 560PF, K, 50V	1	
C4204	ECJ2XB1H271K	C 270PF, K, 50V	1	
C4205	ECJ1XB1H271K	C 270PF, K, 50V	1	
C4206,07	ECJ3XB0J106M	C 10UF, M,6.3V	2	
C4208	EEVHB1C220	E 22UF, 16V	1	EEVHB1C220R
C6004-06	ECJ1VF1C104Z	C 0.1UF, Z, 16V	3	
C6007,08	EEVHB0J470	E 47UF, 6.3V	2	
C6009-16	ECJ1VF1C104Z	C 0.1UF, Z, 16V	8	
C6017	EEVHB1C100	E 10UF, 16V	1	
C6018	ECJ1VF1C104Z	C 0.1UF, Z, 16V	1	
C6019	EEVHB0J101	E 100UF, 6.3V	1	EEVHB0J101P
C6020-26	ECJ1VF1C104Z	C 0.1UF, Z, 16V	7	
C6028-39	ECJ1VF1C104Z	C 0.1UF, Z, 16V	12	
C6301-03	ECJ1VF1C104Z	C 0.1UF, Z, 16V	3	
C6304,05	EEVHB0J101	E 100UF, 6.3V	2	EEVHB0J101P
C6306-08	ECJ1VF1C104Z	C 0.1UF, Z, 16V	3	
C6309	EEVHB0J101	E 100UF, 6.3V	1	EEVHB0J101P
C6310	ECJ1VF1A105Z	C 1UF, Z, 10V	1	
C6311	ECJ1VF1C104Z	C 0.1UF, Z, 16V	1	
C6313,14	ECJ1VF1C104Z	C 0.1UF, Z, 16V	2	
C6316-24	ECJ1VF1C104Z	C 0.1UF, Z, 16V	9	
C6325	EEVHB0J220	E 22UF 6.3V	1	
C6326	ECJ1VF1A105Z	C 1UF, Z, 10V	1	
C6327-31	ECJ1VF1C104Z	C 0.1UF, Z, 16V	5	
C6332	ECJ1VF1A105Z	C 1UF, Z, 10V	1	
C6333	ECJ1VB1H822K	C 8200PF, K, 50V	1	
C6334	ECJ2XB1A105K	C 1UF, K, 10V	1	
C6336	ECJ1XC1H101J	C 100PF, J, 50V	1	
C6339	ECJ1XC1H101J	C 100PF, J, 50V	1	
C6340	ECJ1VB1H562K	C 5600PF, K, 50V	1	
C6341	ECJ1VF1C104Z	C 0.1UF, Z, 16V	1	
C6342	ECJ1VB1H472K	C 4700PF, K, 50V	1	
C6343	ECJ1VC1H560J	C 56PF, J, 50V	1	
C6344	ECJ1XC1H331J	C 330PF, J, 50V	1	F1H1H3310005
C6345	ECJ1XC1H561J	C 560PF, J, 50V	1	
C6346	ECJ1VF1C104Z	C 0.1UF, Z, 16V	1	
C6347	ECJ1VB1H562K	C 5600PF, K, 50V	1	
C6348	ECJ1XC1H331J	C 330PF, J, 50V	1	F1H1H3310005
C6349	ECJ1VF1C104Z	C 0.1UF, Z, 16V	1	
C6350	ECJ1VF1A105Z	C 1UF, Z, 10V	1	
C6351	EEVHB0J101	E 100UF, 6.3V	1	EEVHB0J101P
C6352	ECJ1VF1C104Z	C 0.1UF, Z, 16V	1	
C6353	EEVHB0J101	E 100UF, 6.3V	1	EEVHB0J101P
C6354	ECJ1XC1H470J	C 47PF, J, 50V	1	
C6355	EEVHB0J470	E 47UF, 6.3V	1	
C6356-59	ECJ1VF1C104Z	C 0.1UF, Z, 16V	4	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C6360	EEVHB1C470	E 47UF, 16V	1	EEVHB1C470P
C6361	EEVHB0J470	E 47UF, 6.3V	1	
C6362,63	ECJ1VF1C104Z	C 0.1UF, Z, 16V	2	
C6364	EEVHB0J220	E 22UF 6.3V	1	
C9001-22	ECJ1VF1C104Z	C 0.1UF, Z, 16V	22	
C9023	ECJ1XC1H181J	C 180PF, J, 50V	1	
C9024	ECJ1XC1H150J	C 15PF, J, 50V	1	
C9028	ECJ1VF1C224Z	C 0.22UF, Z, 16V	1	
C9029	ECJ1XC1H181J	C 180PF, J, 50V	1	
C9030	ECJ1XC1H150J	C 15PF, J, 50V	1	
C9031,32	ECJ1XC1H271J	C 270PF, J, 50V	2	
C9033	ECJ1VF1C224Z	C 0.22UF, Z, 16V	1	
C9034,35	ECJ1XC1H271J	C 270PF, J, 50V	2	
C9036	EEVHB1C100	E 10UF, 16V	1	
C9037	ECJ1XC1H391J	C 390PF, J, 50V	1	ECUX1H391JCV
C9038	ECJ1XC1H181J	C 180PF, J, 50V	1	
C9039,40	ECJ1VF1A105Z	C 1UF, Z, 10V	2	
C9041	EEVHB1C100	E 10UF, 16V	1	
C9042	ECJ1VF1C104Z	C 0.1UF, Z, 16V	1	
C9043	ECJ1VF1A105Z	C 1UF, Z, 10V	1	
C9044	ECJ1VB1H102K	C 1000PF, K, 50V	1	
C9045	ECJ1VF1A105Z	C 1UF, Z, 10V	1	
C9046	ECJ1XC1H150J	C 15PF, J, 50V	1	
C9047	ECJ1XC1H391J	C 390PF, J, 50V	1	ECUX1H391JCV
C9048	ECJ1VF1C104Z	C 0.1UF, Z, 16V	1	
C9049	ECJ1VF1C224Z	C 0.22UF, Z, 16V	1	
C9050,51	ECJ1XC1H030C	C 3PF, C, 50V	2	
C9052	ECJ1XF1H103Z	C 0.01UF, Z, 50V	1	ECJ1VF1H103Z
C9053	EEVHB1C100	E 10UF, 16V	1	
C9054	EEVHB0J101	E 100UF, 6.3V	1	EEVHB0J101P
C9055,56	ECJ1VF1C104Z	C 0.1UF, Z, 16V	2	
C9057	ECJ1XC1H391J	C 390PF, J, 50V	1	ECUX1H391JCV
C9058,59	ECJ1VF1C104Z	C 0.1UF, Z, 16V	2	
C9061-64	ECJ1VF1C104Z	C 0.1UF, Z, 16V	4	
C9501	ECJ1VF1C104Z	C 0.1UF, Z, 16V	1	
C9502	EEVHB0J470	E 47UF, 6.3V	1	
C9503	ECJ1VF1C104Z	C 0.1UF, Z, 16V	1	
C9505,06	ECJ1VF1C104Z	C 0.1UF, Z, 16V	2	
C9507	EEVHB0J470	E 47UF, 6.3V	1	
C9508-10	ECJ1VF1C104Z	C 0.1UF, Z, 16V	3	
C9512	ECJ1VF1C104Z	C 0.1UF, Z, 16V	1	
C9514-16	EEVHB1C100	E 10UF, 16V	3	
C9517-19	ECJ1VF1C104Z	C 0.1UF, Z, 16V	3	
C9520-22	ECJ1VB1C104K	C 0.1UF, K, 16V	3	
C9523	EEVHB0J101	E 100UF, 6.3V	1	EEVHB0J101P
C9524	ECJ1VF1C104Z	C 0.1UF, Z, 16V	1	
C9526	ECJ1VF1C104Z	C 0.1UF, Z, 16V	1	
C9527	EEVHB1C220	E 22UF, 16V	1	EEVHB1C220R
C9528	EEVHB1C470	E 47UF, 16V	1	EEVHB1C470P
C9529,30	EEVHB1E4R7	E 4.7UF, 25V	2	
C9531-33	ECJ1VF1A105Z	C 1UF, Z, 10V	3	
C9534	ECJ1VF1C104Z	C 0.1UF, Z, 16V	1	
C9536	ECJ1VB1H103K	C 0.01UF, K, 50V	1	
C9538	ECJ1VB1H103K	C 0.01UF, K, 50V	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C9540	ECJ1VB1H103K	C 0.01UF, K, 50V	1	
C9541-43	ECJ1XF1H103Z	C 0.01UF, Z, 50V	3	ECJ1VF1H103Z
C9544,45	ECJ1VB1C104K	C 0.1UF, K, 16V	2	
C9546	ECJ1VF1C474Z	C 0.47UF, Z, 16V	1	
C9547	ECJ1VB1C104K	C 0.1UF, K, 16V	1	
C9548	ECJ1VF1C104Z	C 0.1UF, Z, 16V	1	
C9549	ECJ1XC1H470J	C 47PF, J, 50V	1	
C9550	ECJ1XC1H151J	C 150PF, J, 50V	1	
C9551	ECJ1VC1H270J	C 27PF, J, 50V	1	
C9552	ECJ1XC1H470J	C 47PF, J, 50V	1	
C9553	ECJ1XC1H151J	C 150PF, J, 50V	1	
C9554	ECJ1VC1H270J	C 27PF, J, 50V	1	
C9555	ECJ1XC1H470J	C 47PF, J, 50V	1	
C9556	ECJ1XC1H151J	C 150PF, J, 50V	1	
C9557	ECJ1VC1H270J	C 27PF, J, 50V	1	
C9558	EEVHB1C470	E 47UF, 16V	1	EEVHB1C470P
D001	MA152K	DIODE	1	MA3X152K
D002,03	MA3020	ZENER DIODE	2	
D004	LNJ101WHLEA	LED	1	
D601,02	MA111	DIODE	2	MA2J111
D605-08	B0JCNE000004	DIODE	4	
D609-12	MA113	DIODE	4	MA2J113
D613,14	DAN217	DIODE	2	
D615,16	MA111	DIODE	2	MA2J111
D680,81	MA111	DIODE	2	MA2J111
D684,85	DAN217	DIODE	2	
D801	B0JANE000009	DIODE	1	
D802	EK14	DIODE	1	B0JAME000061
D804,05	MA111	DIODE	2	MA2J111
D806	MA8062L	ZENER DIODE	1	MAZ80620LL
D807,08	EK14	DIODE	2	B0JAME000061
D809	AK04	DIODE	1	B0JAMC000003
D813	MA111	DIODE	1	MA2J111
D814	MA8056M	ZENER DIODE	1	MAZ80560ML
D816	MA8110M	ZENER DIODE	1	MAZ81100ML
D817,18	MA111	DIODE	2	MA2J111
D819	MA8056M	ZENER DIODE	1	MAZ80560ML
D820	MA111	DIODE	1	MA2J111
D821	MA8062L	ZENER DIODE	1	MAZ80620LL
D822	AK04	DIODE	1	B0JAMC000003
D951-60	MA8056M	ZENER DIODE	10	MAZ80560ML
D2300	MA8200M	ZENER DIODE	1	MAZ82000M
D2304,05	MA8200M	ZENER DIODE	2	MAZ82000M
D2308	MA8200M	ZENER DIODE	1	MAZ82000M
D2501	MA8047M	ZENER DIODE	1	MAZ80470M
D2510	MA111	DIODE	1	MA2J111
D2511	MA157A	DIODE	1	MA3X157A
D2512	MA152WK	DIODE	1	MA3X152E
D2513	MA165	DIODE	1	MA2C165
D2516	MA152WK	DIODE	1	MA3X152E
D3001-03	MA8056M	ZENER DIODE	3	MAZ80560ML
D3004	MA2J72800L	ZENER DIODE	1	
D4003,04	MA8140M	ZENER DIODE	2	MAZ81400M

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
D4006	MA8140M	ZENER DIODE	1	MAZ81400M
D4008	MA8140M	ZENER DIODE	1	MAZ81400M
D6301,02	MA2Z374001FD	ZENER DIODE	2	
DG1	K1MN50A00005	50P CONNECTOR	1	
DG2	K1MN36A00006	36P CONNECTOR	1	
DG3	TJSF52250	1P CONNECTOR	1	K1MN50B00005
DG4	K1KA11A00048	11P CONNECTOR	1	
H1,H2	K1KA14A00128	14P CONNECTOR	2	
H3	K1KA12A00188	12P CONNECTOR	1	
H4	K1KA11B00039	11P CONNECTOR	1	
H5,H6	K1KB20B00031	20P CONNECTOR	2	
IC001	C0ZBZ0000443	IC	1	
IC601	NJM2904M	LINEAR IC	1	C0ABBA000021
IC602	C0DBCMA00004	IC	1	
IC801-04	PQ1CZ21H2ZP	IC	4	C0DBCMG00001
IC806	C0CBAKG00004	IC	1	
IC808	PQ1CZ21H2ZP	IC	1	C0DBCMG00001
IC810	AN77L08M	IC	1	
IC901	C0JBAN000098	IC	1	
IC905-09	TC4066BF	IC	5	C0JBAS000085
IC910	TC7MBD3245KL	IC	1	C0JBAZ001839
IC1001	TC7MBD3245KL	IC	1	C0JBAZ001839
IC1002	C2CBYF000028	IC	1	
IC1003	PST9128NR	IC (LOGIC)	1	C0EBE0000066
IC1004	TVRJ747	ROM IC	1	C3EBGC000017
IC1007	TVRJ712	ROM IC	1	C3FBKD000104
IC1008	TVSA0500	IC	1	C3ABMG000074
IC2301	TA8256BH	LINEAR IC	1	C1BA00000218
IC2502	AN17880A	IC	1	
IC2503	C1AB00001584	IC	1	
IC3001	TVRJ677	ROM IC	1	
IC3002	TVRJ674	ROM IC	1	
IC3004	M51957BFP	LINEAR IC	1	C0EBB0000024
IC4002	CXA2069Q	LINEAR IC	1	C1AB00000459
IC6001	C0FBAD000070	IC	1	
IC6301	C0JBAF000374	IC	1	
IC6302	C1ZBZ0001831	IC	1	
IC6304	C0JBAZ000851	IC	1	
IC6305	C0ABBB000195	IC	1	
IC6306	TC74LCX04FT	IC	1	C0JBAB000288
IC9001	C1AB00001345	IC	1	
IC9501	74LVC74APW	MOS IC (CMOS S/LOGIC)	1	C0JBAZ000923
IC9502	C0FBBD000126	IC	1	
IC9505	AN5394FB	IC	1	
JK801	K2EE2A000001	JACK	1	⚠
JK2501	K2HC103A0002	JACK	1	
JK2502	TJSF32800	HEAD PHON JACK	1	K2HC103B0095
JK4001	K1U413A00002	TERMINAL BOARD	1	
JK4002,03	K1FB121A0006	JACK	2	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
JS005	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
JS011	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
K1	K1MN06B00003	CONNECTOR	1	
L001	TLPF071	CHOKE COIL	1	G1ZZ00000032
L002	ELJPA330KB	CHIP INDUCTOR	1	ELJPA330KF
L004	ELJFA221KB	CHIP INDUCTOR	1	ELJFA221KF
L007,08	J0JHC0000001	CHIP INDUCTOR	2	
L009,10	ELJPA330KB	CHIP INDUCTOR	2	ELJPA330KF
L601-04	G1C680MA0032	INDUCTION COIL	4	
L801	TALL08N470KA	INDUCTION COIL	1	G0A470GA0011
L802	TAL10RP101LB	INDUCTION COIL	1	G0ZZ00001930
L803-05	TALL08N470KA	INDUCTION COIL	3	G0A470GA0011
L806,07	TAL10RP101LB	INDUCTION COIL	2	G0ZZ00001930
L808	TAL10RP181LB	INDUCTION COIL	1	G0ZZ00001931
L809	TALL08N470KA	INDUCTION COIL	1	G0A470GA0011
L810	TAL10RP151LB	INDUCTION COIL	1	G0ZZ00001908
L1001	ELJPA4R7MB	CHIP INDUCTOR	1	ELJPA4R7MF
L1002	ELJPA180KB	CHIP INDUCTOR	1	
L1003	ELJPA330KB	CHIP INDUCTOR	1	ELJPA330KF
L1004	ELJPA3R3MB	CHIP INDUCTOR	1	
L1009	ELJFA4R7KB	CHIP INDUCTOR	1	ELJFA4R7KF
L1010	ELJFA8R2KB	CHIP INDUCTOR	1	
L1013	ELJFA4R7KB	CHIP INDUCTOR	1	ELJFA4R7KF
L2301	EXCELSA35	BEAD CHOKE	1	
L2501	ELJPA330KB	CHIP INDUCTOR	1	ELJPA330KF
L2503,04	ELJPA330KB	CHIP INDUCTOR	2	ELJPA330KF
L2505	ELJFA6R8MB	CHIP COIL	1	
L2506,07	ELJPA330KB	CHIP INDUCTOR	2	ELJPA330KF
L3001	ELJFA100JB	CHIP COIL	1	ELJFA100JF
L4001-05	J0JBC0000004	CHIP INDUCTOR	5	
L4200-02	J0JBC0000004	CHIP INDUCTOR	3	
L4203	EXC3BB221H	BEAD CHOKE	1	
L4204	J0JBC0000004	CHIP INDUCTOR	1	
L6001,02	ELJPA100KB	CHIP INDUCTOR	2	
L6301-03	J0JHC0000001	CHIP INDUCTOR	3	
L6304	ELJPA101KB	CHIP INDUCTOR	1	ELJPA101KF
L6305	G1C121Z00004	INDUCTOR COIL	1	
L6306	ELJND68NJB	CHIP INDUCTOR	1	
L6307	ELJNDR18JB	CHIP INDUCTOR	1	
L6308-10	J0JHC0000001	CHIP INDUCTOR	3	
L9001,02	ELJFA220JB	CHIP COIL	2	ELJFA220JF
L9003,04	ELJFA5R6JB	CHIP INDUCTOR	2	ELJFA5R6JF
L9005	ELJFA220JB	CHIP COIL	1	ELJFA220JF
L9006	ELJPA6R8MB	CHIP INDUCTOR	1	ELJPA6R8MF
L9501,02	ELJPA100KB	CHIP INDUCTOR	2	
L9503-05	ELJFA4R7JB	CHIP INDUCTOR	3	ELJFA4R7JF
LC1001-03	ELKE103FA	NOISE FILTER	3	
LC6301-08	J0HABB000008	LC FILTER	8	
LC6309	J0HAAB000010	LC FILTER	1	
LC6310-25	J0HABB000008	LC FILTER	16	
LC9001	ELKE103FA	NOISE FILTER	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
LC9003-11	ELKE103FA	NOISE FILTER	9	
LG1-G7	TESA169	SHIELD CLIP	7	
LG20-29	TESA169	SHIELD CLIP	10	
LG32,33	TESA169	SHIELD CLIP	2	
LG36-39	TESA169	SHIELD CLIP	4	
LG091,92	TJC85341	TERMINAL	2	K4ZZ01000121
LG601-03	TJC85341	TERMINAL	3	K4ZZ01000121
LG606	TJC85341	TERMINAL	1	K4ZZ01000121
LG681,82	TJC85341	TERMINAL	2	K4ZZ01000121
LG801	TJC85341	TERMINAL	1	K4ZZ01000121
LG804-13	TJC85341	TERMINAL	10	K4ZZ01000121
LG1000-03	K4CD01000002	TERMINAL	4	
P1	K1KB10A00077	10P CONNECTOR	1	
P2	VJS1472	CONNECTOR	1	K1MN10A00031
P3,P4	K1KA03B00065	3P CONNECTOR	2	
P5	K1MN17A00028	17P CONNECTOR	1	
P6,P7	K1KA03B00065	3P CONNECTOR	2	
P8	VJS1472	CONNECTOR	1	K1MN10A00031
PA618,19	UNHH20500L	TRANSISTOR	2	
Q001-03	2SD601A	TRANSISTOR	3	2SD0601A
Q004,05	2SB709A	TRANSISTOR	2	2SB0709A
Q006	UNR521100L	TRANSISTOR	1	UNR5211
Q601	UNR521100L	TRANSISTOR	1	UNR5211
Q602	2SB1219A	TRANSISTOR	1	
Q603	2SC39380LL	TRANSISTOR	1	2SC39380Q
Q604,05	FMY1AT148	TRANSISTOR	2	
Q606,07	2SJ499	TRANSISTOR	2	
Q608	2SD601A	TRANSISTOR	1	2SD0601A
Q609,10	UNR521100L	TRANSISTOR	2	UNR5211
Q611	2SD601A	TRANSISTOR	1	2SD0601A
Q612,13	UN5111	TRANSISTOR	2	UNR5111
Q614-17	B1BBFF000003	TRANSISTOR	4	
Q680,81	2SD601A	TRANSISTOR	2	2SD0601A
Q803	B1DHDD000013	TRANSISTOR	1	B1DHDD000012
Q804,05	UNR521100L	TRANSISTOR	2	UNR5211
Q806	2SD601A	TRANSISTOR	1	2SD0601A
Q807	UNR521100L	TRANSISTOR	1	UNR5211
Q808	2SB709A	TRANSISTOR	1	2SB0709A
Q810-12	B1DHDD000013	TRANSISTOR	3	B1DHDD000012
Q813	2SD601A	TRANSISTOR	1	2SD0601A
Q814	UNR521100L	TRANSISTOR	1	UNR5211
Q815	2SD601A	TRANSISTOR	1	2SD0601A
Q817	UN5111	TRANSISTOR	1	UNR5111
Q818-22	UNR521100L	TRANSISTOR	5	UNR5211
Q823-25	B1DHDC000016	TRANSISTOR	3	
Q826	UNR521100L	TRANSISTOR	1	UNR5211
Q901	UNR521100L	TRANSISTOR	1	UNR5211
Q902-04	2SB1440	TRANSISTOR	3	2SB14400H
Q905-07	2SB709A	TRANSISTOR	3	2SB0709A
Q908	2SB1440	TRANSISTOR	1	2SB14400H

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
Q909	2SB709A	TRANSISTOR	1	2SB0709A
Q1001	UN5111	TRANSISTOR	1	UNR5111
Q1002	UNR521100L	TRANSISTOR	1	UNR5211
Q1004	2SD601A	TRANSISTOR	1	2SD0601A
Q1006-09	2SD601A	TRANSISTOR	4	2SD0601A
Q2501	UNR521100L	TRANSISTOR	1	UNR5211
Q2502	UN5111	TRANSISTOR	1	UNR5111
Q2503	UNR521100L	TRANSISTOR	1	UNR5211
Q2510,11	UNR521100L	TRANSISTOR	2	UNR5211
Q2512	2SD601A	TRANSISTOR	1	2SD0601A
Q2513	2SB709A	TRANSISTOR	1	2SB0709A
Q2514	2SD601A	TRANSISTOR	1	2SD0601A
Q2515	2SB709A	TRANSISTOR	1	2SB0709A
Q2516	2SD601A	TRANSISTOR	1	2SD0601A
Q2517,18	UNR521100L	TRANSISTOR	2	UNR5211
Q2519	UN5111	TRANSISTOR	1	UNR5111
Q3001,02	UNR521100L	TRANSISTOR	2	UNR5211
Q4001-03	2SD601A	TRANSISTOR	3	2SD0601A
Q4004	2SB709A	TRANSISTOR	1	2SB0709A
Q4005,06	2SD601A	TRANSISTOR	2	2SD0601A
Q4200	2SD601A	TRANSISTOR	1	2SD0601A
Q6001-03	2SD601A	TRANSISTOR	3	2SD0601A
Q6301	2SD601A	TRANSISTOR	1	2SD0601A
Q6304	B1ABBB000046	TRANSISTOR	1	
Q9001-04	2SD601A	TRANSISTOR	4	2SD0601A
Q9501	2SC39380LL	TRANSISTOR	1	2SC39380Q
Q9502-04	2SD601A	TRANSISTOR	3	2SD0601A
Q9505-07	2SB709A	TRANSISTOR	3	2SB0709A
R001	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	D0GD102JA016
R002	ERJ6GEYJ561	M 560 OHM,J,1/10W	1	
R003	ERJ3GEYJ471	M 470 OHM,J,1/16W	1	
R004	ERJ6GEYJ821	M 820 OHM,J,1/10W	1	D0GD821JA016
R007	ERJ6GEYJ332	M 3.3KOHM,J,1/10W	1	
R008	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	D0GD102JA016
R009	ERJ6GEY0R00	M 0 OHM,J,1/10W	1	
R010	ERJ6GEYJ332	M 3.3KOHM,J,1/10W	1	
R011,12	ERJ3EKF5600	M 560 OHM, 1/16W	2	
R013	ERJ3GEYJ331	M 330 OHM,J,1/16W	1	
R015	ERJ3GEYJ221	M 220 OHM,J,1/16W	1	
R016	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R017	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R018	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	D0GD101JA016
R021	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	D0GD101JA016
R022-24	ERJ6GEY0R00	M 0 OHM,J,1/10W	3	
R025	ERJ6GEYJ393	M 39KOHM,J,1/10W	1	
R027	ERJ6GEY0R00	M 0 OHM,J,1/10W	1	
R031,32	ERJ6GEY0R00	M 0 OHM,J,1/10W	2	
R033-35	ERJ6GEYJ561	M 560 OHM,J,1/10W	3	
R036	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	D0GD102JA016
R037,38	ERJ6ENF6801	M 6.8KOHM, 1/10W	2	
R039	ERJ6ENF1202	M 12KOHM, 1/10W	1	
R040	ERJ6GEYJ470	M 47 OHM,J,1/10W	1	
R042	ERJ6ENF2202	M 2.2KOHM, 1/10W	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R044	ERJ6ENF6802	M 68KOHM, 1/10W	1	
R046,47	ERJ6GEYJ393	M 39KOHM,J,1/10W	2	
R048	ERJ6GEY0R00	M 0 OHM,J,1/10W	1	
R050	ERJ6GEY0R00	M 0 OHM,J,1/10W	1	
R051	ERJ8GCY0R00	M 0 OHM, J,1/8W	1	ERJ8GCY0R00V
R052	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R053	ERJ6GEY0R00	M 0 OHM,J,1/10W	1	
R601-04	ERJ6GEYJ103	M 10KOHM,J,1/10W	4	
R605	ERJ6GEY0R00	M 0 OHM,J,1/10W	1	
R606	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R607,08	ERJ12YJ471	M 470OHM,J, 1/2W	2	
R609	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R610,11	ERJ6ENF6982	M69.8KOHM, 1/10W	2	D1BD6982A028
R612,13	ERJ6ENF2212	M22.1KOHM, 1/10W	2	D1BD2212A028
R614	ERJ6ENF1003	M 100KOHM, 1/10W	1	
R615,16	ERJ6GEYJ223	M 22KOHM,J,1/10W	2	
R617,18	ERJ6ENF2212	M22.1KOHM, 1/10W	2	D1BD2212A028
R619	ERJ6ENF1003	M 100KOHM, 1/10W	1	
R620	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	D0GD102JA016
R621,22	ERJ8GEYJ152	M 1.5KOHM, J,1/8W	2	ERJ8GEYJ152V
R623	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	D0GD102JA016
R624	ERJ8GEYJ471	M 470 OHM, J,1/8W	1	ERJ8GEYJ471V
R625	ERJ6GEYJ223	M 22KOHM,J,1/10W	1	
R626	ERJ8GEYJ471	M 470 OHM, J,1/8W	1	ERJ8GEYJ471V
R627	ERJ6GEY0R00	M 0 OHM,J,1/10W	1	
R628	ERJ12YJ471	M 470OHM,J, 1/2W	1	
R629,30	ERJ12YJ100	M 10 OHM,J, 1/2W	2	
R631	ERJ12YJ471	M 470OHM,J, 1/2W	1	
R634	ERJ6GEY0R00	M 0 OHM,J,1/10W	1	
R635	ERJ12YJ471	M 470OHM,J, 1/2W	1	
R636	ERJ6GEYJ332	M 3.3KOHM,J,1/10W	1	
R637	ERJ6ENF3302	M 33KOHM, 1/10W	1	
R638	ERJ6ENF4872	M48.7KOHM, 1/10W	1	D1BD4872A028
R639	ERJ6GEYJ133	M 13KOHM,J,1/10W	1	D0GD133JA016
R640	ERJ6GEYJ332	M 3.3KOHM,J,1/10W	1	
R641	ERJ6ENF3302	M 33KOHM, 1/10W	1	
R642	ERJ6ENF4872	M48.7KOHM, 1/10W	1	D1BD4872A028
R643	ERJ6GEYJ133	M 13KOHM,J,1/10W	1	D0GD133JA016
R644,45	ERJ12YJ182	M 1.8KOHM, 1/2W	2	
R646,47	ERJ6GEYJ100	M 10 OHM,J,1/10W	2	
R648,49	ERJ12YJ182	M 1.8KOHM, 1/2W	2	
R650	ERJ6GEYJ473	M 47KOHM,J,1/10W	1	
R651,52	ERJ6GEYJ100	M 10 OHM,J,1/10W	2	
R653	ERJ6GEYJ473	M 47KOHM,J,1/10W	1	
R654-57	ERJ12YK3R3	M 3.3OHM,J, 1/2W	4	
R658,59	ERJ6ENF5111	M5.11KOHM, 1/10W	2	D1BD5111A027
R660,61	ERJ6ENF1472	M14.7KOHM, 1/10W	2	D1BD1472A028
R662,63	ERJ6GEYJ104	M 100KOHM,J,1/10W	2	
R664,65	ERJ14NF2000	M 220OHM, 1/10W	2	
R680	ERJ6GEY0R00	M 0 OHM,J,1/10W	1	
R681	ERJ14NF2000	M 220OHM, 1/10W	1	
R682	ERJ6GEY0R00	M 0 OHM,J,1/10W	1	
R683	ERJ6GEYJ332	M 3.3KOHM,J,1/10W	1	
R684	ERJ14NF2000	M 220OHM, 1/10W	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R685	ERJ6GEYJ332	M 3.3KOHM,J,1/10W	1	
R686	ERJ6GEYJ133	M 13KOHM,J,1/10W	1	D0GD133JA016
R687	ERJ6GEYJ473	M 47KOHM,J,1/10W	1	
R688	ERJ6GEYJ133	M 13KOHM,J,1/10W	1	D0GD133JA016
R689	ERJ6GEYJ473	M 47KOHM,J,1/10W	1	
R690,91	ERJ6GEYJ104	M 100KOHM,J,1/10W	2	
R801	D0X0R0000010	M 0 OHM,J,1/10W	1	
R804	ERJ6ENF1001	M 1KOHM, 1/10W	1	
R805	ERJ6ENF3001	M 3KOHM, 1/10W	1	
R806	D0X0R0000010	M 0 OHM,J,1/10W	1	
R807	ERJ6GEYJ473	M 47KOHM,J,1/10W	1	
R808	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R811	ERJ6GEYJ153	M 15KOHM,J,1/10W	1	D0GD153JA016
R812	D0X0R0000010	M 0 OHM,J,1/10W	1	
R814-16	ERJ6GEYJ102	M 1KOHM,J,1/10W	3	D0GD102JA016
R818	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R819	ERJ6GEY0R00	M 0 OHM,J,1/10W	1	
R820	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	D0GD102JA016
R821	ERJ6GEYJ153	M 15KOHM,J,1/10W	1	D0GD153JA016
R822,23	ERJ6GEYJ223	M 22KOHM,J,1/10W	2	
R824	ERJ6GEYJ562	M 5.6KOHM,J,1/10W	1	
R825	ERJ6GEYJ221	M 220 OHM,J,1/10W	1	
R827	ERJ6GEYJ473	M 47KOHM,J,1/10W	1	
R828	ERJ6GEYJ332	M 3.3KOHM,J,1/10W	1	
R829,30	D0X0R0000010	M 0 OHM,J,1/10W	2	
R831,32	ERJ6GEYJ473	M 47KOHM,J,1/10W	2	
R833	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R834,35	ERJ6ENF1001	M 1KOHM, 1/10W	2	
R836	ERJ6ENF1101	M 1.1KOHM, 1/10W	1	D1BD1101A027
R837	ERJ6GEYJ473	M 47KOHM,J,1/10W	1	
R838	ERJ6ENF1691	M 1.6KOHM, 1/10W	1	D1BD1691A027
R839	ERJ6GEYJ473	M 47KOHM,J,1/10W	1	
R840	ERJ6ENF1781	M1.78KOHM, 1/10W	1	D1BD1781A027
R841	ERJ6ENF1102	M 11KOHM, 1/10W	1	D1BD1102A028
R843	ERDS2TJ103	C 10KOHM, J,1/4W	1	
R846	ERJ6GEYJ822	M 8.2KOHM,J,1/10W	1	D0GD822JA016
R847	ERJ6GEYJ332	M 3.3KOHM,J,1/10W	1	
R850	ERJ6GEYJ223	M 22KOHM,J,1/10W	1	
R851	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	D0GD102JA016
R852	ERJ6ENF1001	M 1KOHM, 1/10W	1	
R853	ERJ6GEYJ223	M 22KOHM,J,1/10W	1	
R854	ERJ6ENF3001	M 3KOHM, 1/10W	1	
R856	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R857,58	ERJ6GEYJ102	M 1KOHM,J,1/10W	2	D0GD102JA016
R859	ERJ6GEY0R00	M 0 OHM,J,1/10W	1	
R860	ERJ6GEYJ223	M 22KOHM,J,1/10W	1	
R862,63	D0X0R0000010	M 0 OHM,J,1/10W	2	
R865	ERJ3GEYJ473	M 47KOHM,J,1/16W	1	
R880	ERJ6GEYJ392	M 3.9KOHM,J,1/10W	1	
R901-06	ERJ6GEY0R00	M 0 OHM,J,1/10W	6	
R907,08	ERJ3GEYJ121	M 120 OHM,J,1/16W	2	D0GB121JA002
R909-11	ERJ3GEYJ473	M 47KOHM,J,1/16W	3	
R913,14	EXB38V121J	RESISTOR ARRAY	2	
R915,16	ERJ3GEYJ103	M 10KOHM,J,1/16W	2	D0GB103JA002

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R918	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	D0GB103JA002
R923	ERJ6GEYJ151	M 150 OHM,J,1/10W	1	D0GD151JA016
R924,25	ERJ6GEYJ331	M 330 OHM,J,1/10W	2	
R926	ERJ3GEYJ273	M 27KOHM,J,1/16W	1	D0GB273JA007
R927-29	ERJ3GEYJ102	M 1KOHM,J,1/16W	3	D0GB102JA007
R930	ERJ6GEYJ331	M 330 OHM,J,1/10W	1	
R1001	ERJ3GEYJ512	M 5.1KOHM,J,1/16W	1	
R1002	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	D0GB103JA002
R1003	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R1004	EXB38V473J	RESISTOR ARRAY	1	
R1005,06	ERJ3GEYJ473	M 47KOHM,J,1/16W	2	
R1007	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002
R1008	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R1009	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	D0GB103JA002
R1010	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R1011	ERJ3GEYJ683	M 68KOHM,J,1/16W	1	
R1012	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R1013	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	D0GB103JA002
R1015	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R1016	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002
R1017,18	EXB38V680J	RESISTOR ARRAY	2	
R1019	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002
R1020	EXB38V680J	RESISTOR ARRAY	1	
R1023	ERJ3GEYJ273	M 27KOHM,J,1/16W	1	D0GB273JA007
R1027	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R1029	ERJ3GEYJ392	M 3.9KOHM,J,1/16W	1	
R1030	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R1033	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R1034	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	D0GB103JA002
R1036	ERJ3GEYJ153	M 15KOHM,J,1/16W	1	D0GB153JA002
R1037	EXB38V680J	RESISTOR ARRAY	1	
R1039	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R1044	ERJ3GEYJ273	M 27KOHM,J,1/16W	1	D0GB273JA007
R1045	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R1046	EXB38V680J	RESISTOR ARRAY	1	
R1047	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002
R1048	ERJ3GEYJ331	M 330 OHM,J,1/16W	1	
R1049	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R1050	ERJ3GEYJ471	M 470 OHM,J,1/16W	1	
R1051	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	D0GB103JA002
R1052	ERJ3GEYJ220	M 22 OHM,J,1/16W	1	
R1053,54	EXB38V680J	RESISTOR ARRAY	2	
R1055	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002
R1056	ERJ3GEYJ225	M 2.2MOHM,J,1/16W	1	ERJ3GEYJ225V
R1057	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R1058	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002
R1059	EXB38V680J	RESISTOR ARRAY	1	
R1060	ERJ3GEYJ473	M 47KOHM,J,1/16W	1	
R1061	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002
R1062,63	ERJ3GEY0R00	M 0 OHM, 1/16W	2	
R1064	EXB38V680J	RESISTOR ARRAY	1	
R1066	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R1068,69	ERJ3GEYJ101	M 100 OHM,J,1/16W	2	D0GB101JA002
R1070	ERJ3GEYJ223	M 22KOHM,J,1/16W	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R1071	ERJ3GEYJ183	M 18KOHM,J,1/16W	1	
R1072	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002
R1073	ERJ3GEYJ183	M 18KOHM,J,1/16W	1	
R1074	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002
R1075,76	ERJ3GEYJ104	M 100KOHM,J,1/16W	2	D0GB104JA002
R1077	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002
R1078	ERJ3GEYJ273	M 27KOHM,J,1/16W	1	D0GB273JA007
R1079	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002
R1080	ERJ3GEYJ224	M 220KOHM,J,1/16W	1	D0GB224JA007
R1081	ERJ3GEYJ273	M 27KOHM,J,1/16W	1	D0GB273JA007
R1082	ERJ3GEYJ221	M 220 OHM,J,1/16W	1	
R1083	ERJ3GEYJ273	M 27KOHM,J,1/16W	1	D0GB273JA007
R1085,86	EXB38V680J	RESISTOR ARRAY	2	
R1087,88	ERJ3GEYJ473	M 47KOHM,J,1/16W	2	
R1089-92	ERJ3GEYJ101	M 100 OHM,J,1/16W	4	D0GB101JA002
R1093	ERJ3GEYJ273	M 27KOHM,J,1/16W	1	D0GB273JA007
R1094,95	ERJ3GEYJ101	M 100 OHM,J,1/16W	2	D0GB101JA002
R1096	ERJ3GEYJ273	M 27KOHM,J,1/16W	1	D0GB273JA007
R1098	EXB38V101J	RESISTOR ARRAY	1	
R1100	ERJ3GEYJ562	M 5.6KOHM,J,1/16W	1	
R1101,02	ERJ3GEYJ183	M 18KOHM,J,1/16W	2	
R1103	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002
R1105	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002
R1108	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	D0GB103JA002
R1109	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R1116	ERJ3GEYJ562	M 5.6KOHM,J,1/16W	1	
R1119	ERJ3GEY0R00		1	
R1132	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002
R1133	ERJ3GEYJ683	M 68KOHM,J,1/16W	1	
R1135	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R2309	ERJ6GEYJ152	M 1.5KOHM,J,1/10W	1	D0GD152JA016
R2310	ERJ6GEYJ332	M 3.3KOHM,J,1/10W	1	
R2311	ERDS1TJ2R2	C 2.2 OHM, J,1/2W	1	
R2352	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	D0GD102JA016
R2353,54	ERJ6GEYJ152	M 13KOHM,J,1/10W	2	D0GD152JA016
R2355,56	ERDS1TJ2R2	C 2.2 OHM, J,1/2W	2	
R2360,61	ERJ6GEYJ332	M 3.3KOHM,J,1/10W	2	
R2503,04	ERJ6GEY0R00	M 0 OHM,J,1/10W	2	
R2511,12	ERJ6GEYJ103	M 10KOHM,J,1/10W	2	
R2514,15	ERJ3GEY0R00	M 0 OHM, 1/16W	2	
R2516	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R2518	ERJ6GEYJ104	M 100KOHM,J,1/10W	1	
R2530-32	ERJ6GEY0R00	M 0 OHM,J,1/10W	3	
R2533	ERJ3GEYJ104	M 100KOHM,J,1/16W	1	D0GB104JA002
R2535	ERJ6GEY0R00	M 0 OHM,J,1/10W	1	
R2536	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	D0GD101JA016
R2537,38	ERJ3GEY0R00	M 0 OHM, 1/16W	2	
R2539	ERJ6GEY0R00	M 0 OHM,J,1/10W	1	
R2540-43	ECJ1VB1C104K	C 0.1UF, K, 16V	4	
R2545	ERJ3GEYJ104	M 100KOHM,J,1/16W	1	D0GB104JA002
R2546	ERJ6GEYJ104	M 100KOHM,J,1/10W	1	
R2547	ERJ6GEYJ473	M 47KOHM,J,1/10W	1	
R2549	ERJ6GEYJ471	M 470 OHM,J,1/10W	1	
R2551	ERJ6GEYJ152	M 13KOHM,J,1/10W	1	D0GD152JA016

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R2552	ERJ6GEYJ184	M 180KOHM,J,1/10W	1	D0GD184JA016
R2553	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R2554	ERJ6GEYJ105	M 1MOHM,J,1/10W	1	
R2556	ERJ6GEYJ104	M 100KOHM,J,1/10W	1	
R2557	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R2558	ERJ6GEYJ104	M 100KOHM,J,1/10W	1	
R2559	ERJ6GEYJ223	M 22KOHM,J,1/10W	1	
R2560,61	ERJ3GEYJ101	M 100 OHM,J,1/16W	2	D0GB101JA002
R2562,63	ERJ3GEYJ273	M 27KOHM,J,1/16W	2	D0GB273JA007
R2564,65	ERJ6GEY0R00	M 0 OHM,J,1/10W	2	
R2566	ERJ6GEYJ471	M 470 OHM,J,1/10W	1	
R2567	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	D0GD101JA016
R2568,69	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	2	
R2571,72	ERJ3GEYJ104	M 100KOHM,J,1/16W	2	D0GB104JA002
R2574	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R3001	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	D0GB103JA002
R3002,03	ERJ3GEYJ101	M 100 OHM,J,1/16W	2	D0GB101JA002
R3004,05	ERJ3GEYJ473	M 47KOHM,J,1/16W	2	
R3006,07	ERJ3GEYJ103	M 10KOHM,J,1/16W	2	D0GB103JA002
R3008-14	EXB38V473J	RESISTOR ARRAY	7	
R3015	ERJ3GEYJ473	M 47KOHM,J,1/16W	1	
R3016,17	EXB38V473J	RESISTOR ARRAY	2	
R3019	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	D0GB102JA007
R3020-22	EXB38V473J	RESISTOR ARRAY	3	
R3024,25	EXB38V473J	RESISTOR ARRAY	2	
R3027	EXB38V473J	RESISTOR ARRAY	1	
R3028	ERJ3GEYJ473	M 47KOHM,J,1/16W	1	
R3030	EXB38V473J	RESISTOR ARRAY	1	
R3031	ERJ3GEYJ473	M 47KOHM,J,1/16W	1	
R3032-34	ERJ3GEYJ101	M 100 OHM,J,1/16W	3	D0GB101JA002
R3035,36	EXB38V473J	RESISTOR ARRAY	2	
R3037	ERJ3GEYJ391	M 390 OHM,J,1/16W	1	D0GB391JA002
R3038	ERJ3GEYJ473	M 47KOHM,J,1/16W	1	
R3039	EXB38V473J	RESISTOR ARRAY	1	
R3040	ERJ3GEYJ473	M 47KOHM,J,1/16W	1	
R3041	EXB38V473J	RESISTOR ARRAY	1	
R3042,43	ERJ3GEYJ393	M 39KOHM,J,1/16W	2	
R3046	ERJ3GEYJ473	M 47KOHM,J,1/16W	1	
R3053	ERJ3EKF2432	M24.3KOHM, 1/16W	1	
R3058	ERJ3EKF1002	M 10KOHM, 1/16W	1	
R3059-61	ERJ3GEYJ103	M 10KOHM,J,1/16W	3	D0GB103JA002
R3062	ERJ3GEYJ391	M 390 OHM,J,1/16W	1	D0GB391JA002
R3063	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R4001	ERJ6ENF75R0	M 75 OHM, 1/10W	1	D1BD75R0A025
R4002	ERJ6GEYJ682	M 6.8KOHM,J,1/10W	1	
R4003	ERJ3GEYJ184	M 180KOHM,J,1/16W	1	
R4004,05	ERJ6GEYJ221	M 220 OHM,J,1/10W	2	
R4006	ERJ6GEYJ750	M 75 OHM,J,1/10W	1	
R4007	ERJ3GEYJ184	M 180KOHM,J,1/16W	1	
R4008	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	1	
R4009	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R4010	ERJ6GEYJ333	M 33KOHM,J,1/10W	1	
R4011	ERJ6ENF75R0	M 75 OHM, 1/10W	1	D1BD75R0A025
R4012	ERJ6GEYJ333	M 33KOHM,J,1/10W	1	

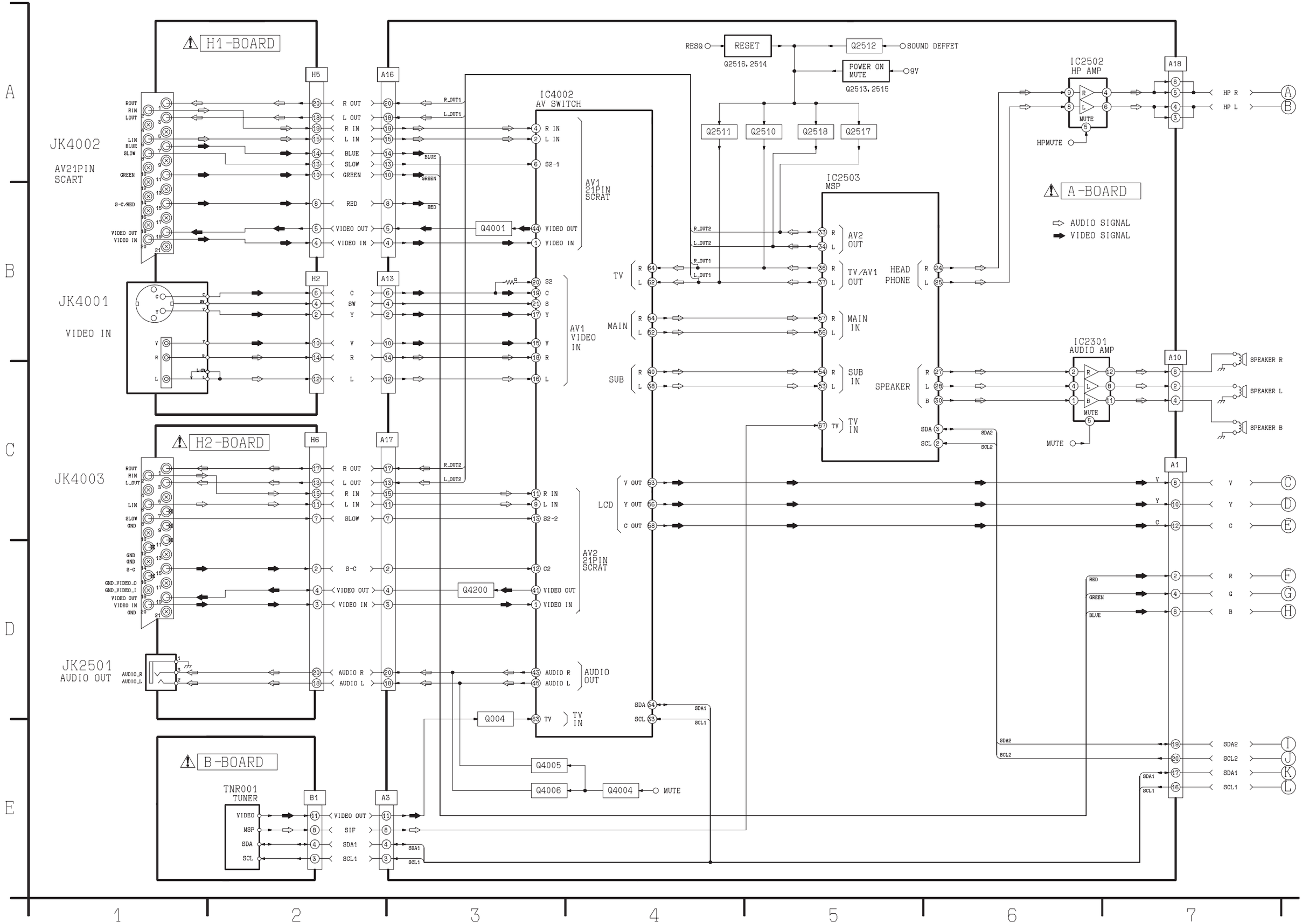
Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R4013	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	D0GD102JA016
R4014	ERJ6ENF75R0	M 75 OHM, 1/10W	1	D1BD75R0A025
R4015	ERJ6GEYJ302	M 3KOHM,J,1/10W	1	
R4016	ERJ6GEYJ182	M 1.8KOHM,J,1/10W	1	D0GD182JA016
R4017	ERJ6GEYJ682	M 6.8KOHM,J,1/10W	1	
R4018-20	ERJ6ENF75R0	M 75 OHM, 1/10W	3	D1BD75R0A025
R4024	ERJ6ENF75R0	M 75 OHM, 1/10W	1	D1BD75R0A025
R4025,26	ERJ6ENF1200	M 120 OHM, 1/10W	2	
R4027	ERJ6ENF75R0	M 75 OHM, 1/10W	1	D1BD75R0A025
R4028,29	ERJ6GEYJ101	M 100 OHM,J,1/10W	2	D0GD101JA016
R4031,32	ERJ3GEYJ103	M 10KOHM,J,1/16W	2	D0GB103JA002
R4033	ERJ6ENF1200	M 120 OHM, 1/10W	1	
R4034	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R4037	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	D0GD102JA016
R4038-40	ERJ6GEYJ221	M 220 OHM,J,1/10W	3	
R4041	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	D0GD102JA016
R4042	ERJ6GEYJ562	M 5.6KOHM,J,1/10W	1	
R4044	ERJ6GEYJ221	M 220 OHM,J,1/10W	1	
R4045	ERJ6GEYJ562	M 5.6KOHM,J,1/10W	1	
R4050,51	ERJ6GEYJ101	M 100 OHM,J,1/10W	2	D0GD101JA016
R4052,53	ERJ6GEYJ102	M 1KOHM,J,1/10W	2	D0GD102JA016
R4054	ERJ6GEYJ184	M 180KOHM,J,1/10W	1	D0GD184JA016
R4055,56	ERJ6GEYJ393	M 39KOHM,J,1/10W	2	
R4057	ERJ6GEYJ274	M 270KOHM,J,1/10W	1	D0GD274JA016
R4058	ERJ6GEYJ184	M 180KOHM,J,1/10W	1	D0GD184JA016
R4059,60	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	2	
R4062	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	D0GD102JA016
R4063	ERJ6GEYJ105	M 1MOHM,J,1/10W	1	
R4064	ERJ6GEYJ221	M 220 OHM,J,1/10W	1	
R4078,79	ERJ6GEYJ102	M 1KOHM,J,1/10W	2	D0GD102JA016
R4080,81	ERJ3GEYJ102	M 1KOHM,J,1/16W	2	D0GB102JA007
R4200	ERJ3GEYJ682	M 6.8KOHM,J,1/16W	1	
R4201,02	ERJ6ENF75R0	M 75 OHM, 1/10W	2	D1BD75R0A025
R4203	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R4204	ERJ6GEYJ750	M 75 OHM,J,1/10W	1	
R4205	ERJ3GEYJ333	M 33KOHM,J,1/16W	1	
R4206	ERJ6GEYJ333	M 33KOHM,J,1/10W	1	
R4207	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	D0GB102JA007
R4208	ERJ3GEYJ302	M 3KOHM,J,1/16W	1	
R4209	ERJ3GEYJ182	M 1.8KOHM,J,1/16W	1	
R6001-03	ERJ6ENF1131	M1.13KOHM, 1/10W	3	D1BD1131A027
R6004-06	ERJ6ENF1001	M 1KOHM, 1/10W	3	
R6007	ERJ6GEY0R00	M 0 OHM,J,1/10W	1	
R6008	EXB38V472J	RESISTOR ARRAY	1	
R6009	ERJ3EKF1001	M 1KOHM, 1/16W	1	
R6010	ERJ3EKF1501	M 1.5KOHM, 1/16W	1	
R6011-13	ERJ3GEYJ101	M 100 OHM,J,1/16W	3	D0GB101JA002
R6014	ERJ3EKF7500	M 75OHM, 1/16W	1	
R6015-17	ERJ3GEYJ123	M 12KOHM,J,1/16W	3	D0GB123JA002
R6018,19	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	2	
R6020	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R6027-29	ERJ6GEYJ101	M 100 OHM,J,1/10W	3	D0GD101JA016
R6301,02	ERJ3GEYJ103	M 10KOHM,J,1/16W	2	D0GB103JA002
R6303	ERJ6GEY0R00	M 0 OHM,J,1/10W	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R6307-09	ERJ6GEY0R00	M 0 OHM,J,1/10W	3	
R6312	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R6313	ERJ3GEYJ100	M 10 OHM,J,1/16W	1	
R6314	EXB38V103J	RESISTOR ARRAY	1	
R6315	EXB38V101J	RESISTOR ARRAY	1	
R6316	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002
R6317	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	D0GB102JA007
R6318	ERJ3GEYJ122	M 1.2KOHM,J,1/16W	1	D0GB122JA002
R6319	ERJ6GEYJ100	M 10 OHM,J,1/10W	1	
R6320	ERJ3GEYJ392	M 3.9KOHM,J,1/16W	1	
R6325	ERJ6GEYJ470	M 47 OHM,J,1/10W	1	
R6326	ERJ3GEYJ153	M 15KOHM,J,1/16W	1	D0GB153JA002
R6327	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R6328	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002
R6329,30	EXB38VR000	RESISTOR ARRAY	2	
R6331	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R6332,33	EXB38VR000	RESISTOR ARRAY	2	
R6337	ERJ3GEYJ222	M 2.2KOHM,J,1/16W	1	
R6338	ERJ3GEYJ153	M 15KOHM,J,1/16W	1	D0GB153JA002
R6339	ERJ3GEYJ393	M 39KOHM,J,1/16W	1	
R6340	ERJ3GEYJ153	M 15KOHM,J,1/16W	1	D0GB153JA002
R6341	ERJ3GEYJ183	M 18KOHM,J,1/16W	1	
R6342	ERJ3GEYJ682	M 6.8KOHM,J,1/16W	1	
R6343	ERJ3GEYJ822	M 8.2KOHM,J,1/16W	1	D0GB822JA007
R6344	ERJ3GEYJ391	M 390 OHM,J,1/16W	1	D0GB391JA002
R6345,46	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	2	
R6347	EXB38VR000	RESISTOR ARRAY	1	
R6348	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R6349	ERJ3GEYJ332	M 3.3KOHM,J,1/16W	1	
R6351	EXB38VR000	RESISTOR ARRAY	1	
R6352	TAJAAH0470JV	M 47 OHM,J,1/16W	1	D0GB470JA006
R6353	ERJ3GEYJ104	M 100KOHM,J,1/16W	1	D0GB104JA002
R6354	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	D0GB103JA002
R6355	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R6356	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R6358	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9001,02	ERJ3GEY0R00	M 0 OHM, 1/16W	2	
R9004-16	ERJ3GEY0R00	M 0 OHM, 1/16W	13	
R9017	ERJ3GEYJ122	M 1.2KOHM,J,1/16W	1	D0GB122JA002
R9024-26	ERJ3GEYJ102	M 1KOHM,J,1/16W	3	D0GB102JA007
R9027-30	ERJ6ENF75R0	M 75 OHM, 1/10W	4	D1BD75R0A025
R9031	ERJ3GEYJ122	M 1.2KOHM,J,1/16W	1	D0GB122JA002
R9032,33	ERJ6ENF75R0	M 75 OHM, 1/10W	2	D1BD75R0A025
R9034	ERJ3GEYJ122	M 1.2KOHM,J,1/16W	1	D0GB122JA002
R9035	ERJ6GEY0R00	M 0 OHM,J,1/10W	1	
R9036	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002
R9037	ERJ3GEYJ393	M 39KOHM,J,1/16W	1	
R9038	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002
R9039	ERJ3GEYJ393	M 39KOHM,J,1/16W	1	
R9040	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002
R9042	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9046	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	D0GB102JA007
R9047	ERJ3GEYJ750	M 75 OHM,J,1/16W	1	
R9048,49	ERJ3GEYJ101	M 100 OHM,J,1/16W	2	D0GB101JA002

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R9050	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9051-53	ERJ3GEYJ221	M 220 OHM,J,1/16W	3	
R9054	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002
R9055	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9502	ERJ3EKF7501	M 7.5KOHM, 1/16W	1	
R9503	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9505	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9506,07	ERJ3GEYJ222	M 2.2KOHM,J,1/16W	2	
R9508	ERJ3GEYJ332	M 3.3KOHM,J,1/16W	1	
R9509	ERJ3EKF3900	M 390HM, 1/16W	1	
R9511,12	ERJ3EKF3900	M 390HM, 1/16W	2	
R9513	ERJ3EKF7501	M 7.5KOHM, 1/16W	1	
R9514-17	ERJ3GEY0R00	M 0 OHM, 1/16W	4	
R9518	ERJ3EKF7501	M 7.5KOHM, 1/16W	1	
R9522-24	ERJ3GEYJ101	M 100 OHM,J,1/16W	3	D0GB101JA002
R9526,27	ERJ3GEYJ333	M 33KOHM,J,1/16W	2	
R9529,30	ERJ3GEYJ333	M 33KOHM,J,1/16W	2	
R9532,33	ERJ3GEYJ333	M 33KOHM,J,1/16W	2	
R9535-37	ERJ3GEYJ471	M 470 OHM,J,1/16W	3	
R9538	EXB38V101J	RESISTOR ARRAY	1	
R9542	ERJ6ENF1002	M 10KOHM, 1/10W	1	
R9543	ERJ3EKF2002	M 20KOHM, 1/16W	1	
R9545	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R9546	ERJ3GEYJ274	M 270KOHM,J,1/16W	1	D0GB274JA007
R9547	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9548	ERJ3GEYJ393	M 39KOHM,J,1/16W	1	
R9550	ERJ3GEYJ393	M 39KOHM,J,1/16W	1	
R9551	ERJ3GEYJ563	M 56KOHM,J,1/16W	1	
R9552	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9553	ERJ3GEYJ684	M 680KOHM,J,1/16W	1	D0GB684JA002
R9554	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9555-57	ERJ3GEYJ101	M 100 OHM,J,1/16W	3	D0GB101JA002
R9558-60	ERJ3GEY0R00	M 0 OHM, 1/16W	3	
R9563	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9564	ERJ3GEYJ151	M 150 OHM,J,1/16W	1	D0GB151JA002
R9565	ERJ3GEYJ221	M 220 OHM,J,1/16W	1	
R9566	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	D0GB103JA002
R9567	ERJ3GEYJ681	M 680 OHM,J,1/16W	1	
R9568	ERJ3GEYJ151	M 150 OHM,J,1/16W	1	D0GB151JA002
R9569	ERJ3GEYJ221	M 220 OHM,J,1/16W	1	
R9570	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	D0GB103JA002
R9571	ERJ3GEYJ681	M 680 OHM,J,1/16W	1	
R9572	ERJ3GEYJ151	M 150 OHM,J,1/16W	1	D0GB151JA002
R9573	ERJ3GEYJ221	M 220 OHM,J,1/16W	1	
R9574	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	D0GB103JA002
R9575	ERJ3GEYJ681	M 680 OHM,J,1/16W	1	
R9576-78	ERJ3GEY0R00	M 0 OHM, 1/16W	3	
RM001	PNA4601M05TV	REMOCO RECEIVER	1	
RTL	TNPH0473AB	CIRCUIT BOAD A	1	⚠
RTL	TNPA2394AB	CIRCUIT BOAD B	1	⚠
RTL	TNPA2397AB	CIRCUIT BOAD H1	1	⚠

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
RTL	TNPA2398AB	CIRCUIT BOAD H2	1	⚠
RTL	TNPA2396AB	CIRCUIT BOAD K	1	⚠
RTL	TNPA2395AB	CIRCUIT BOAD V	1	⚠
RTL	TNPA2392AB	CIRCUIT BOAD P1	1	⚠
RTL	TNPA2393AB	CIRCUIT BOAD P2	1	⚠
RTL	TXNDG10GLK	CIRCUIT BOAD DG	1	⚠
S001-07	EVQ23405R	SWITCH	7	
S801	TSED0012	SWITCH	1	K0F122A00142
T601,02	ETJ23K12AM	INVARTOR TRANS	2	⚠
T680,81	ETJ23K12AM	INVARTOR TRANS	2	⚠
TNR001	ENG29508G	TUNER	1	⚠
V1	K1MN05A00014	5P CONNECTOR	1	
X001	EFCS7004BF	CERAMIC FILTER	1	
X002	EFCS6504BF	CERAMIC FILTER	1	
X1001	H0J600400006	CRYSTAL	1	
X2501	H0J184500020	CRYSTAL	1	
X3001	TSS4008-N	CRYSTAL	1	H0J160500020
X3002	TSSA154	CRYSTAL	1	H0J372700001
X9001	H0J202500003	CRYSTAL	1	

12. Schematic Diagram for printing with A4 size


H1 -BOARD
H2 -BOARD
B -BOARD
A -BOARD
JK4002
AV21PIN SCART
JK4001
VIDEO IN
JK4003
JK2501
AUDIO OUT
TNR001 TUNER
H5
H2
H6
B1
A16
A13
A17
A3
IC4002 AV SWITCH
AV1 21PIN SCRAT
AV1 VIDEO IN
AV2 21PIN SCRAT
AUDIO OUT
TV IN
Q4001
Q4200
Q004
Q4005
Q4006
Q4004
MUTE
RESQ
RESET
Q2516, 2514
Q2512
SOUND DEFFET
POWER ON MUTE
Q2513, 2515
9V
Q2511
Q2510
Q2518
Q2517
IC2503 MSP
AV2 OUT
TV/AV1 OUT
MAIN IN
SUB IN
TV IN
LCD
IC2502 HP AMP
HPMUTE
HP R
HP L
HEAD PHONE
IC2301 AUDIO AMP
SPEAKER
SPEAKER R
SPEAKER L
SPEAKER B
A18
A10
A1
AUDIO SIGNAL
VIDEO SIGNAL
SDA1
SCL1
SDA2
SCL2

P1-BOARD

P5

JK2502
HEAD PHONE

AUDIO SIGNAL
VIDEO SIGNAL

LCD PANEL

IC9001
VPC

IC9502
D/A

IC9505
RGB PROCESSOR

IC6001
A/D

IC6302
PIXEL CONVERTER

DG3

RED (8bits)

GREEN (8bits)

BLUE (8bits)

DG2

Q9002

Q9003

Q9001

Q6001

Q6002

Q6003

OSD R

OSD G

OSD B

SCL0 SDA0

SCL1 SDA1

IC3003
DAC

IC3002
LDC MCU

IC1004
EEPROM

IC1001
SW

IC1002
MCU

IC1007
8M FLASH

IC1008
16M SDRAM

DG-BOARD

8 9 10 11 12 13 14

SUFFIX
J5005
AF

TO A-BOARD (A2)
DG1
TOP

9V (M2, VPC, RGBP)
STB5V (M2)
STB3.3V
STB2.5V (M2)
5V (VPC, RGBP)
3.3V (VPC, DAC)
PX12V (PLL)
PX5V (PIXCEL)
PX3.3V (PIXCEL)
PX2.5V (PIXCEL)
NC
PANEL5V
MAINPOW
PANELPOW
PIXELPOW
POWDET
KEY1
KEY2
OVP
PWM
LIGHTDAI
LIGHTON
TRAPON
SNDDEF
RESQ
GLINK
IRDA
LED
AFC1
GND

L9006 6.8
LC9001 LC9003 LC9004 LC9005 LC9006 LC9007 LC9008 LC9009 LC9010 LC9011
ELKE103FA
C9001 C9002 C9003 C9004 C9005 C9006 C9007 C9008 C9009 C9010 C9011 C9012 C9013 C9014 C9015 C9016 C9017 C9018 C9019 C9020 C9021 C9022
0.1
R9001 R9002 R9004 R9005 R9006 R9007 R9008 R9009 R9010 R9011 R9012 R9013 R9014 R9015 R9016 R9050
0

Q902 2SB1440OHL
Q903 2SB1440OHL
Q904 2SB1440OHL
Q908 2SB1440OHL
Q905 2SB0709A0L
Q906 2SB0709A0L
Q907 2SB0709A0L
Q909 2SB0709A0L
R923 150
R924 330
R925 330
R926 27k
R927 1k
R928 1k
R929 1k
R930 330
D952 MAZ80560ML
D953 MAZ80560ML
D954 MAZ80560ML
D955 MAZ80560ML
D956 MAZ80560ML
D957 MAZ80560ML
D958 MAZ80560ML
R913 EXB38V121JV
R914 EXB38V121JV
COM_IRQ
COM_SCL0
COM_SDA0
COM_SCL1
COM_SDA1
COM_VPP
COM_TRG0

IC905 C0JBAS000160 SWITCH
IC906 C0JBAS000160 SWITCH
IC907 C0JBAS000160 SWITCH
IC908 C0JBAS000160 SWITCH
IC909 C0JBAS000160 SWITCH
M2_TDI
M2_TDO
M2_TCK
M2_RESET
M2_TRG0
M2_TRG1
M2_TWS
M2_TWD
STB5V
5V
R916 10k
R915 10k
R911 47k
C902 0.1
C903 0.1
C904 0.1
C901 0.1

IC910 C0JBAZ001839 LEVEL SHIFT
LCD_FCLK
LCD_RESET
BUSREQ
SDA_A
SCL_A
LCD_MD2
LCD_MD0
LCD_FOUT
LCD_FIN

IC901 C0JBAN000098 SWITCH
R907 120
R908 120
R909 47k
R910 47k
D959 MAZ80560ML
D960 MAZ80560ML
D961 MAZ80560ML
Q901 UNR521100L

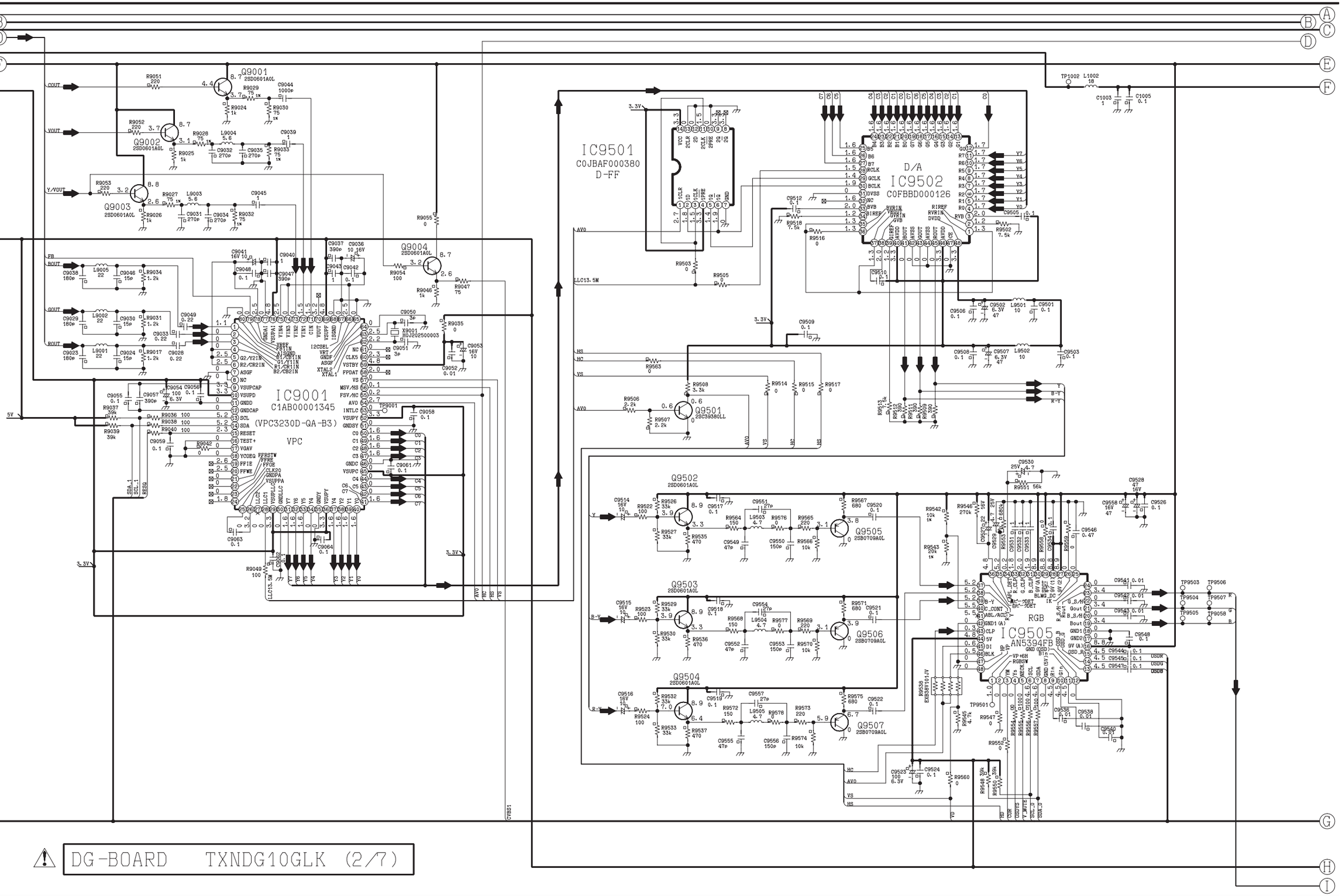
R901 ROUT
R902 GOUT
R903 BOUT
R904 VOUT
R905 Y/VOUT
R906 COUT
FB

ADJ_IRG
ADJ_SCL0
ADJ_SDA0
ADJ_SCL1
ADJ_SDA1
ADJ_VPP
ADJ_TRG0
ADJ_M1
ADJ_M2
SERVICE2
SCL_1
SDA_1
SCL_2
SDA_2

DG2
DG4
TO A-BOARD (A1)
GND INPUT_RO GND INPUT_GO GND INPUT_BO GND INPUT_YO GND INPUT_VO GND INPUT_CO GND FB GND TUNER_SCL1 TUNER_SDA1 GND AUDIO_SCL2 AUDIO_SDA2 GND ADJ_VDD ADJ_IRQ GND ADJ_SCL0 ADJ_SDA0 GND ADJ_SCL1 ADJ_SDA1 GND ADJ_VPP ADJ_TRG0 ADJ_M1 ADJ_M2 NC SERVICE2

⚠ DG-BOARD TXNDG10GLK (1/7)

A B C D E F G H I
1 2 3 4 5 6 7



8 9 10 11 12 13 14

DG-BOARD TXNDG10GLK (3/7)

IC1002
C2CBYF000028
MCU

IC1004
C3EBGC000017
EEPROM

IC1001
C0JBAZ001839
LEVEL SHIFT
5V => 3.3V

IC1003
PST9128NR
RESET

Q1001 UNR511100L
Q1002 UNR521100L
Q1004 2SD0601A0L
Q1006 2SD0601A0L
Q1007 2SD0601A0L
Q1008 2SD0601A0L
Q1009 2SD0601A0L

STB3.3V
STB5V
STB2.5V
CVBS1
KEY1
KEY2
AFC1
READY
OVP
BUSREQ
V_MUTE
RESQ
TRAPON
LED
SERVICE
SDA0
SCL0
RSTIN
M2_RESET
LIGHTON
MAINPOW
SNDDEF
IPSEL
POWDET
M2_TRG0
M2_TRG1
5V_DET
QLINK
DSDTS
DSDB
DSDS
DSDR
CDR
SDA0
SCL0
SDA1
SCL1
SDA2
SCL2
VCC
GND
SDA_0
SCL_0
SDA_1
SCL_1
SDA_2
SCL_2

DG-BOARD TXNDG10GLK (4/7)

IC1007
8M-FLASH
ROM:TVRJ712
C3FBKD000104

IC1008
16M SDRAM
C3ABMG000074

IC3001
C3EBJC000039
24LC64T-I/SN
EEPROM

IC3002
C2CBKH000007
(MB90F574APFV)
LCD MCU

IC3004
C0EBB0000024
RESET

Q3001
UNR521100L

Q3002
UNR521100L

X3001
H0J160500020

X3002
H0J372700001

D3001 MAZ80560ML
D3002 MAZ80560ML
D3003 MAZ80560ML
D3004 MA2J72800L

L1013 4.7
L3001 10

STB3.3V
5V
VD
CSE
RD
WR
CSD
LDQM
UDQM
SCL_0
SDA_0
PANELPOW
PIXELPOW
BUSREQ
PLLHOLD
LCD_RESET
LCD_MD0
LCD_MD2
HD
READY
VRB
LIGHTDA1
ADSTB
BUSD0
BUSD1
BUSCK
LCD_FIN
LCD_FOUT
LCD_FCLK
SDA_A
SCL_A
VRT

DG-BOARD TXNDG10GLK (5/7)

IC6001
C0FBAD000070
MB40C346VPFV-G-BND
A/D

Q6001 2SD0601A0L
Q6002 2SD0601A0L
Q6003 2SD0601A0L

R6002 1.13k 1%
R6003 1.13k 1%
R6001 1.13k 1%
R6004 1k 1%
R6005 1k 1%
R6006 1k 1%
R6027 100
R6028 100
R6029 100

R6008 EXB38V472JV

L6001 10
L6002 10

C6004 0.1
C6005 0.1
C6006 0.1
C6007 6.3V 47
C6008 6.3V 47
C6009 0.1
C6010 0.1
C6011 0.1
C6012 0.1
C6013 0.1
C6014 0.1
C6015 0.1
C6016 0.1
C6017 10 16V
C6018 0.1
C6019 6.3V 100
C6020 0.1
C6021 0.1
C6022 0.1
C6023 0.1
C6024 0.1
C6025 0.1
C6026 0.1
C6027 0.1
C6028 0.1
C6029 0.1
C6030 0.1
C6031 0.1
C6032 0.1
C6033 0.1
C6034 0.1
C6035 0.1
C6036 0.1
C6037 0.1
C6038 0.1
C6039 0.1

R6009 1k 1%
R6010 1.5k 1%
R6011 100
R6012 100
R6013 100
R6014 750 1%
R6015 12k
R6016 12k
R6017 12k
R6018 4.7k
R6019 4.7k
R6020 0
R6007 0

TP6001
TP6002
TP6003
TP6004
TP6005

LG1000 K4CD01000002
LG1001 K4CD01000002
LG1002 K4CD01000002
LG1003 K4CD01000002
LG20 TESA169
LG21 TESA169
LG22 TESA169
LG23 TESA169
LG24 TESA169
LG25 TESA169
LG26 TESA169
LG27 TESA169
LG28 TESA169
LG29 TESA169

PX5V
PX3.3V
CLOCK
CLKA

29 30 31 32 33 34 35

DG-BOARD TXNDG10GLK (6/7)

IC6302
C1ZBZ0001831
PIXEL CONVERTER

29 30 31 32 33 34 35

DG-BOARD TXNDG10GLK (7/7)

AUDIO SIGNAL
VIDEO SIGNAL

IC6305
C0ABBB000195
OP AMP

Q6304
B1ABBB000046

Q6301
2SD0601A0L

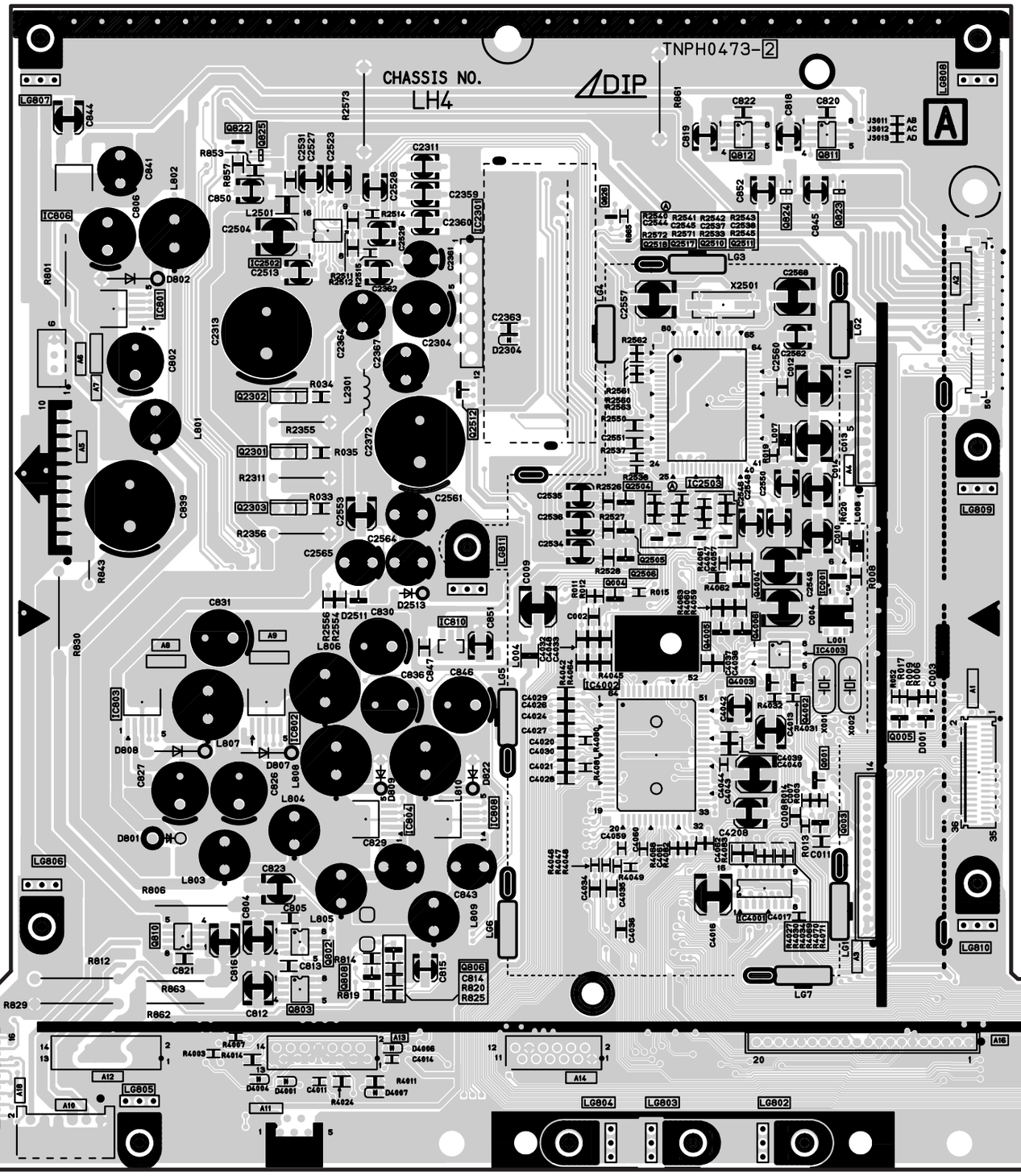
IC6306
C0JBAB000290
INVERTER

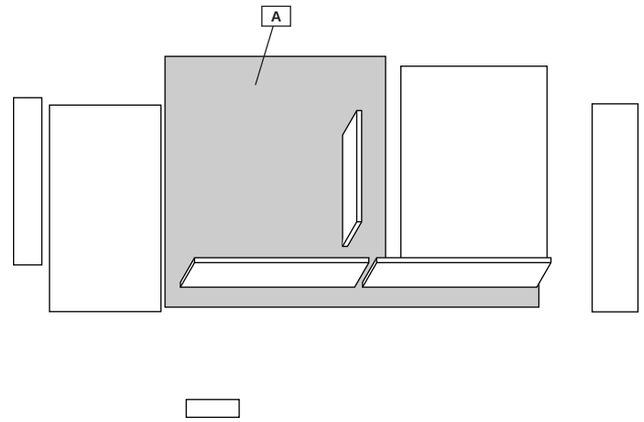
IC6304 BUFFER
C0JBAZ000851

IC6301
C0JBAF000374
D-FF

DG3

A-BOARD (COMPONENT SIDE)
TNPH0473AB



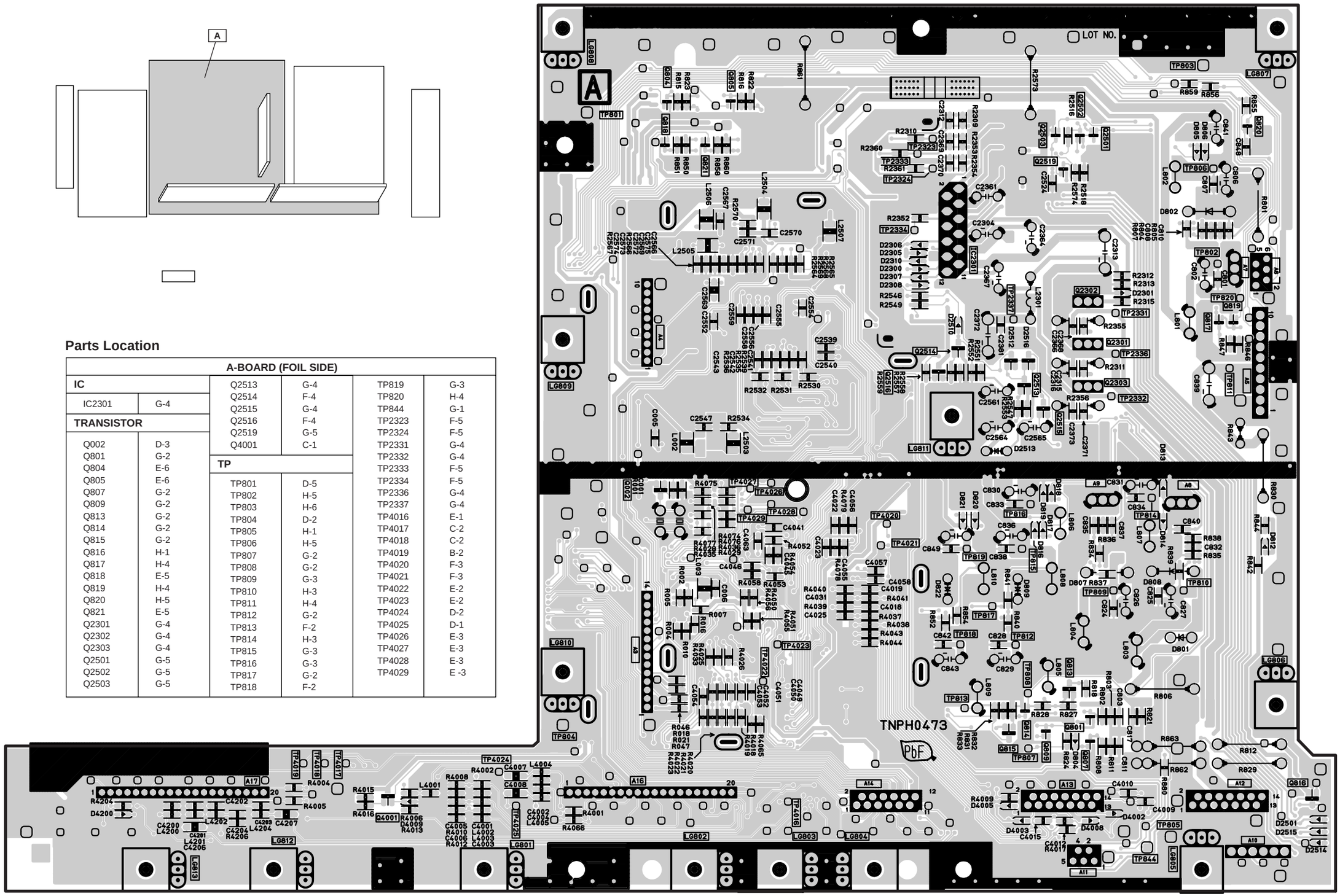


Parts Location

A-BOARD (COMPONENT SIDE)			
IC		Q810	B-2
IC001	E-3	Q811	E-5
IC801	B-5	Q812	D-5
IC802	B-3	Q822	B-5
IC803	A-3	Q823	E-5
IC804	C-2	Q824	D-5
IC806	A-5	Q825	B-5
IC808	C-2	Q826	D-5
IC810	C-3	Q2301	B-4
IC2301	C-5	Q2302	B-4
IC2502	B-5	Q2303	B-4
IC2503	D-4	Q2504	D-4
IC4001	D-2	Q2505	D-3
IC4002	D-3	Q2506	D-3
IC4003	E-3	Q2510	D-5
TRANSISTOR		Q2511	D-5
		Q2512	C-4
Q001	E-3	Q2517	D-5
Q003	E-2	Q2518	D-5
Q004	D-3	Q4002	E-3
Q005	E-3	Q4003	D-3
Q802	B-2	Q4004	D-3
Q803	B-1	Q4005	D-3
Q806	C-2	Q4006	D-3
Q808	B-2	Q4200	H-1

A B C D E F G H I

A-BOARD (FOIL SIDE)
TNPH0473AB



Parts Location

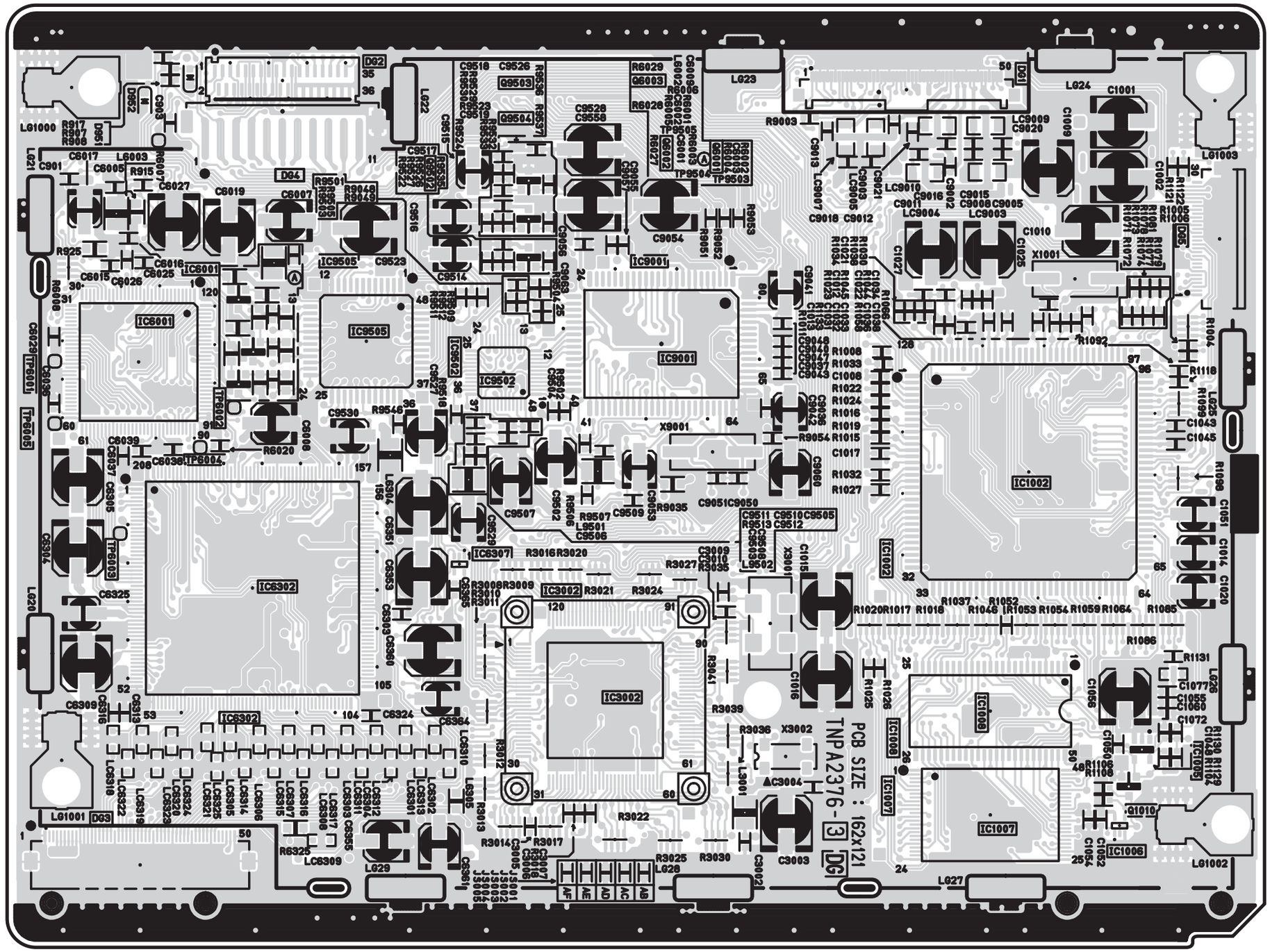
A-BOARD (FOIL SIDE)

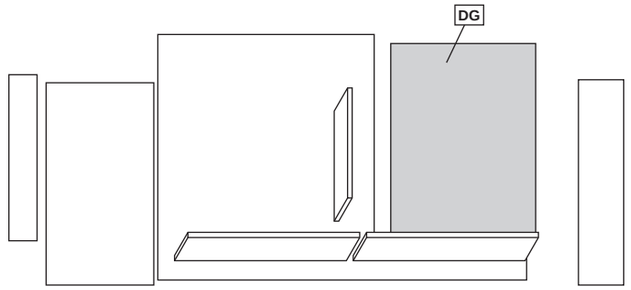
IC	
IC2301	G-4

TRANSISTOR	
Q002	D-3
Q801	G-2
Q804	E-6
Q805	E-6
Q807	G-2
Q809	G-2
Q813	G-2
Q814	G-2
Q815	G-2
Q816	H-1
Q817	H-4
Q818	E-5
Q819	H-4
Q820	H-5
Q821	E-5
Q2301	G-4
Q2302	G-4
Q2303	G-4
Q2501	G-5
Q2502	G-5
Q2503	G-5
Q2513	G-4
Q2514	F-4
Q2515	G-4
Q2516	F-4
Q2519	G-5
Q4001	C-1

TP	
TP801	D-5
TP802	H-5
TP803	H-6
TP804	D-2
TP805	H-1
TP806	H-5
TP807	G-2
TP808	G-2
TP809	G-3
TP810	H-3
TP811	H-4
TP812	G-2
TP813	F-2
TP814	H-3
TP815	G-3
TP816	G-3
TP817	G-2
TP818	F-2
TP819	G-3
TP820	H-4
TP844	G-1
TP2323	F-5
TP2324	F-5
TP2331	G-4
TP2332	G-4
TP2333	F-5
TP2334	F-5
TP2336	G-4
TP2337	G-4
TP4016	E-1
TP4017	C-2
TP4018	C-2
TP4019	B-2
TP4020	F-3
TP4021	F-3
TP4022	E-2
TP4023	E-2
TP4024	D-2
TP4025	D-1
TP4026	E-3
TP4027	E-3
TP4028	E-3
TP4029	E -3

DG-BOARD (COMPONENT SIDE)
TXNDG10GLK

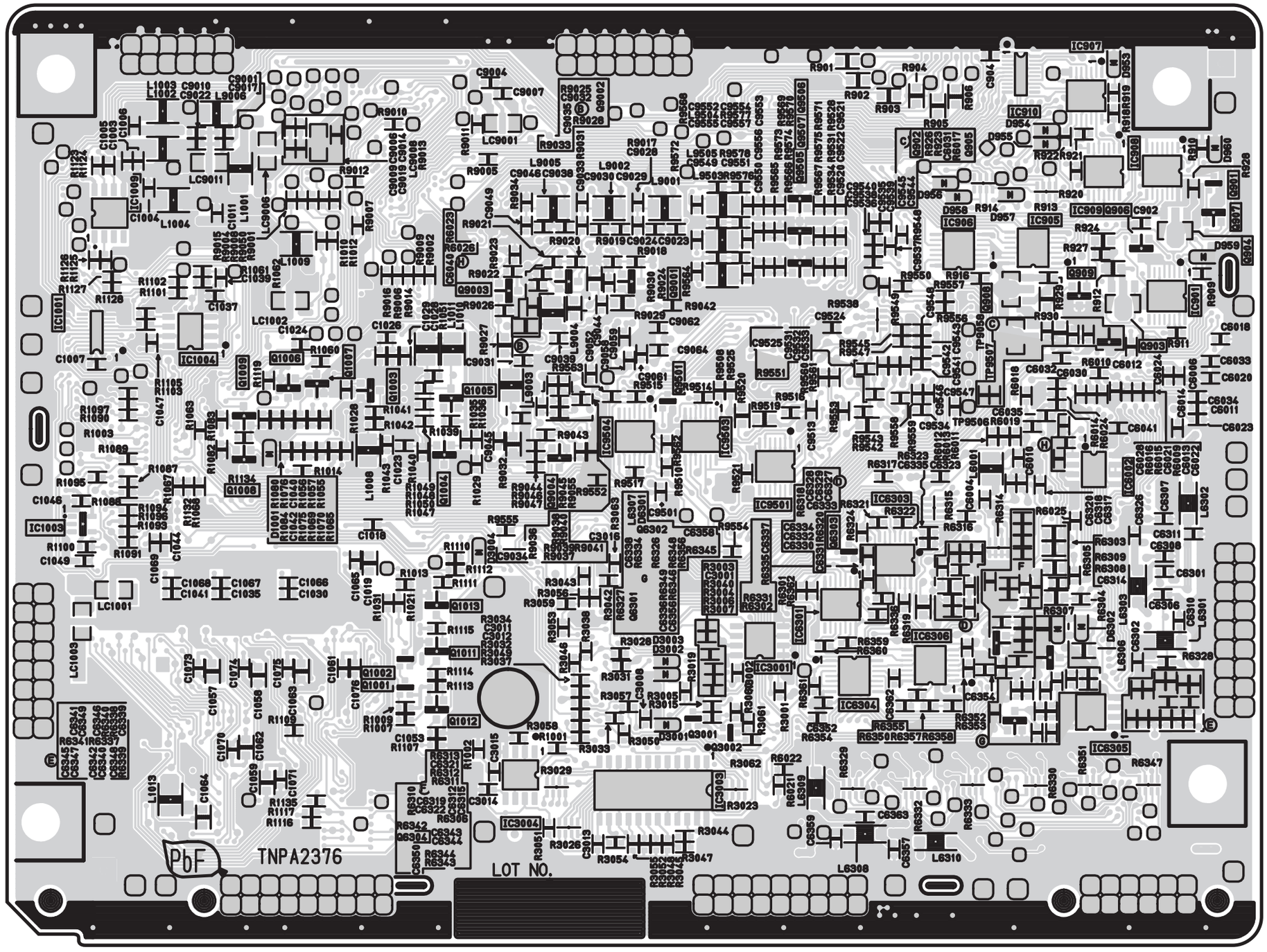


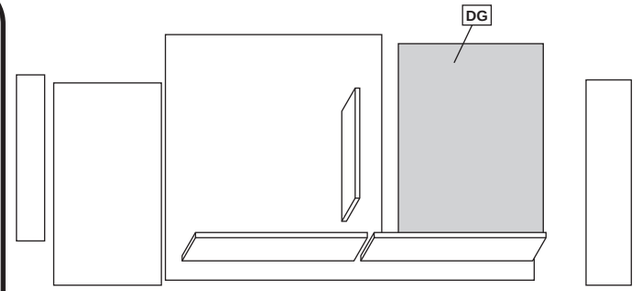


Parts Location

DG-BOARD (COMPONENT SIDE)			
IC		**TP**	
IC1002	E-3	TP6001	A-4
IC1005	G-2	TP6002	B-4
IC1006	G-1	TP6003	A-3
IC1007	E-2	TP6004	B-3
IC1008	E-2	TP6005	A-4
IC3002	D-3	TP9503	E-5
IC6001	B-4	TP9504	D-5
IC6302	B-2	TP9505	D-5
IC6307	C-3		
IC9001	D-4		
IC9502	C-4		
IC9505	C-4		
TRANSISTOR			
Q1010	G-2		
Q6001	D-5		
Q6002	D-5		
Q6003	D-5		
Q9502	C-5		
Q9503	C-5		
Q9504	C-5		

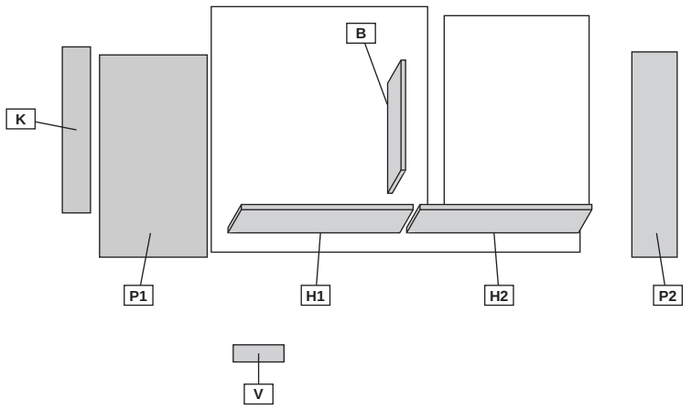
DG-BOARD (FOIL SIDE)
TXNDG10GLK



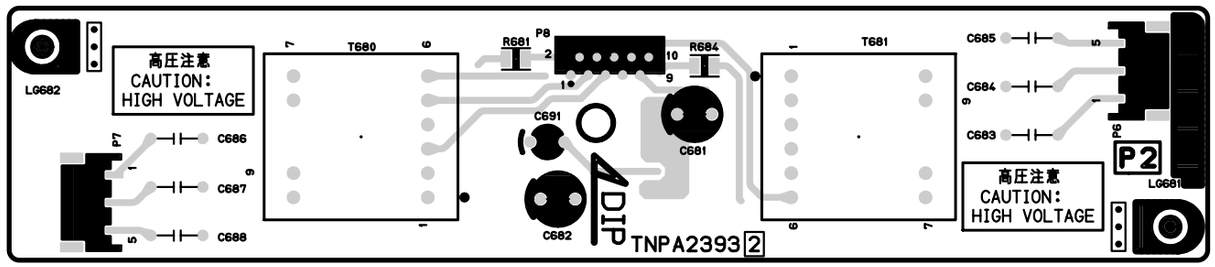


Parts Location

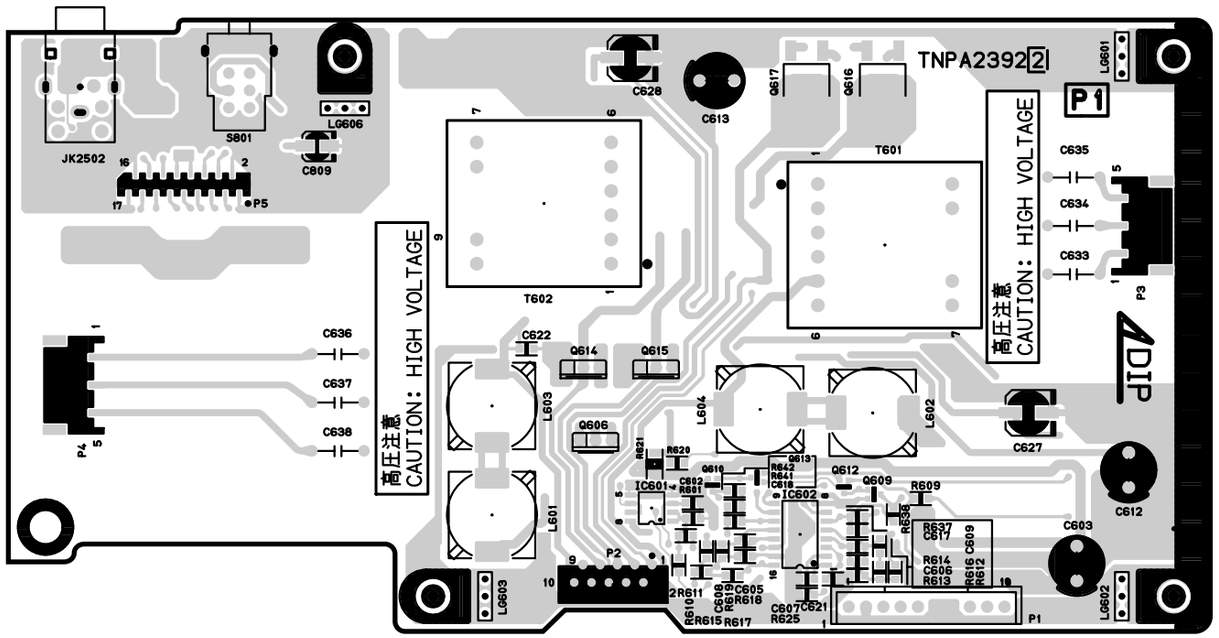
DG-BOARD (FOIL SIDE)			
IC		Q907	G-5
IC901	G-4	Q908	F-4
IC905	F-5	Q909	F-4
IC906	F-5	Q1001	C-2
IC907	F-6	Q1002	C-2
IC908	G-5	Q1003	C-4
IC909	F-5	Q1004	C-3
IC910	F-5	Q1005	C-4
IC1001	A-4	Q1006	B-4
IC1003	A-3	Q1007	C-4
IC1004	B-4	Q1008	B-3
IC1009	A-5	Q1009	B-4
IC3001	E-2	Q1011	C-2
IC3003	D-2	Q1012	C-2
IC3004	C-2	Q1013	C-3
IC6002	G-3	Q6301	D-3
IC6301	E-3	Q6302	D-3
IC6303	E-3	Q6303	E-3
IC6304	E-2	Q6304	C-1
IC6305	F-2	Q9001	D-4
IC6306	F-2	Q9002	D-5
IC9501	E-3	Q9003	C-4
IC9503	D-4	Q9004	D-3
IC9504	D-4	Q9501	D-4
		Q9505	E-5
TRANSISTOR		Q9506	E-5
		Q9507	E-5
Q901	G-5	**TP**	
Q902	F-5	TP9058	F-4
Q903	G-4	TP9506	F-4
Q904	G-4	TP9507	F-4
Q905	F-5		
Q906	F-5		



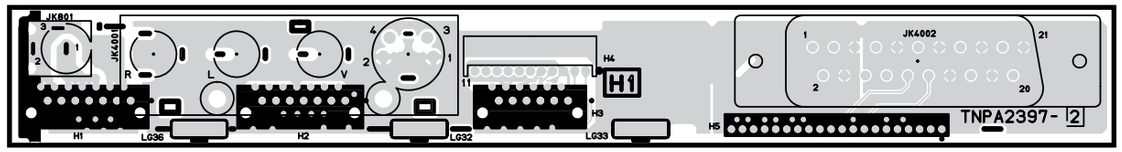
P2-BOARD (COMPONENT SIDE)
TNPA2393AB



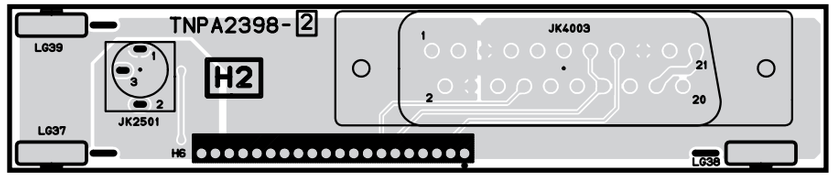
P1-BOARD (COMPONENT SIDE)
TNPA2392AB



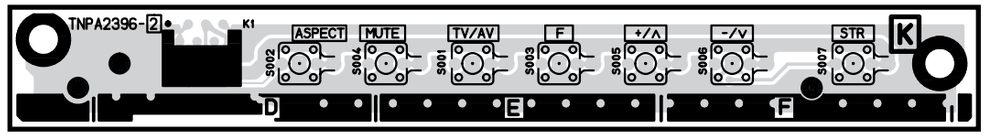
H1-BOARD (COMPONENT SIDE)
TNPA2397AB



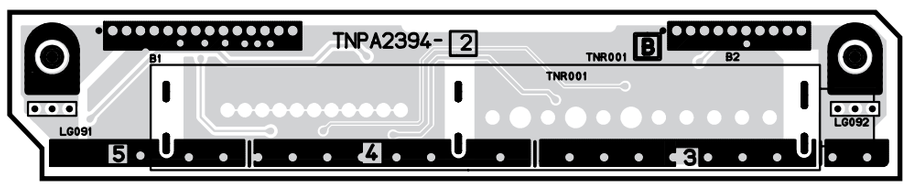
H2-BOARD (COMPONENT SIDE)
TNPA2398AB



K-BOARD (COMPONENT SIDE)
TNPA2396AB



B-BOARD (COMPONENT SIDE)
TNPA2394AB



V-BOARD (COMPONENT SIDE)
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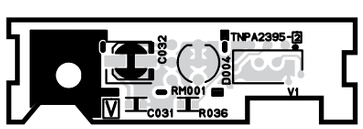
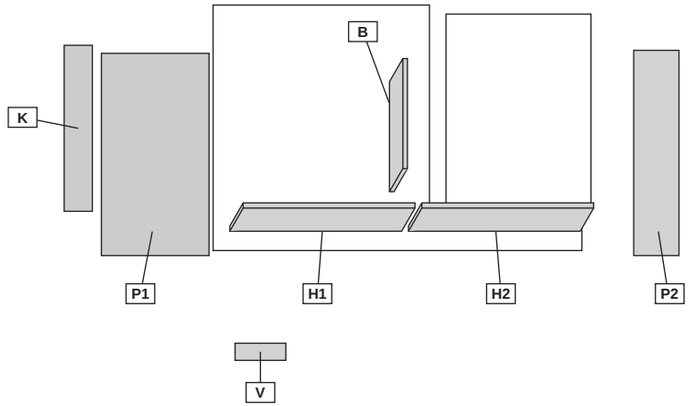
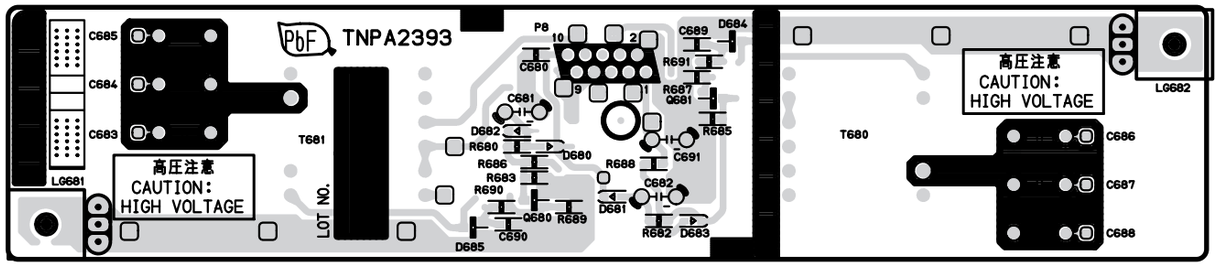
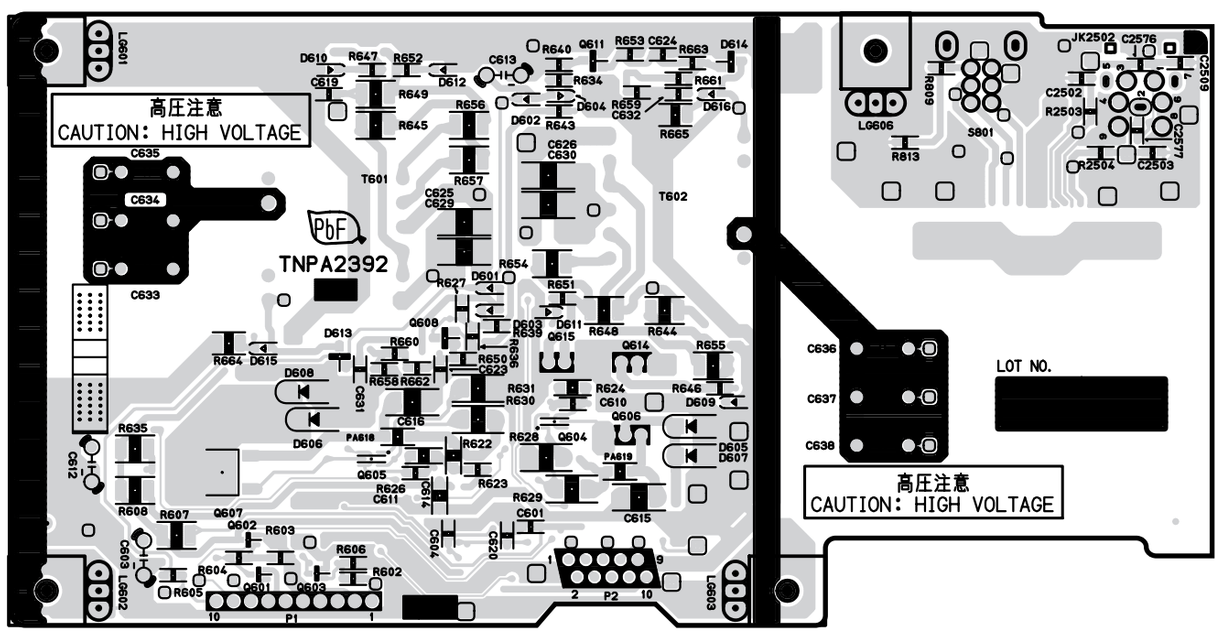




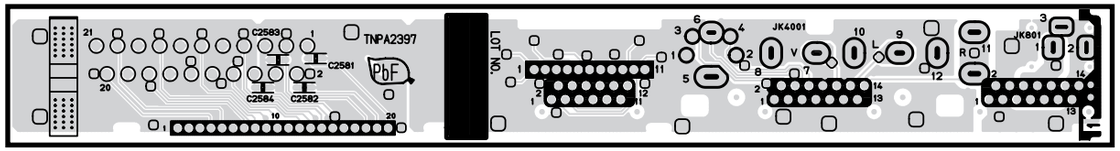
P2-BOARD (FOIL SIDE)
TNPA2393AB



P1-BOARD (FOIL SIDE)
TNPA2392AB



H1-BOARD (FOIL SIDE)
TNPA2397AB



H2-BOARD (FOIL SIDE)
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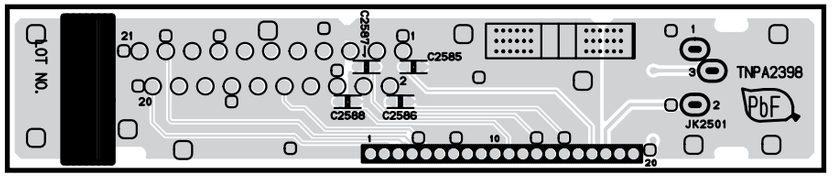
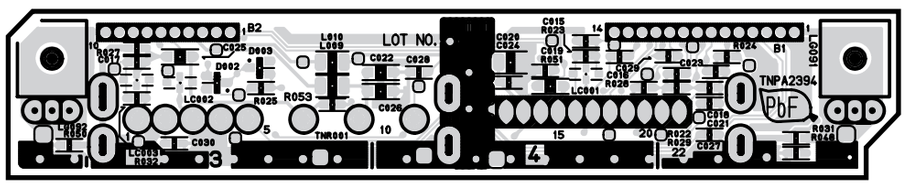
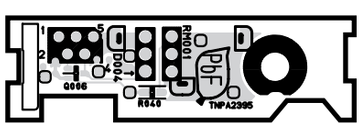


K-BOARD (FOIL SIDE)
TNPA2396AB

B-BOARD (FOIL SIDE)
TNPA2394AB



V-BOARD (FOIL SIDE)
TNPA2395AB



9 Block and Schematic Diagrams

9.1. Schematic Diagram Notes

Important Safety Notice

Components identified by ⚠ mark have special characteristics important for safety.
When replacing any of these components, use only manufacture's specified parts.

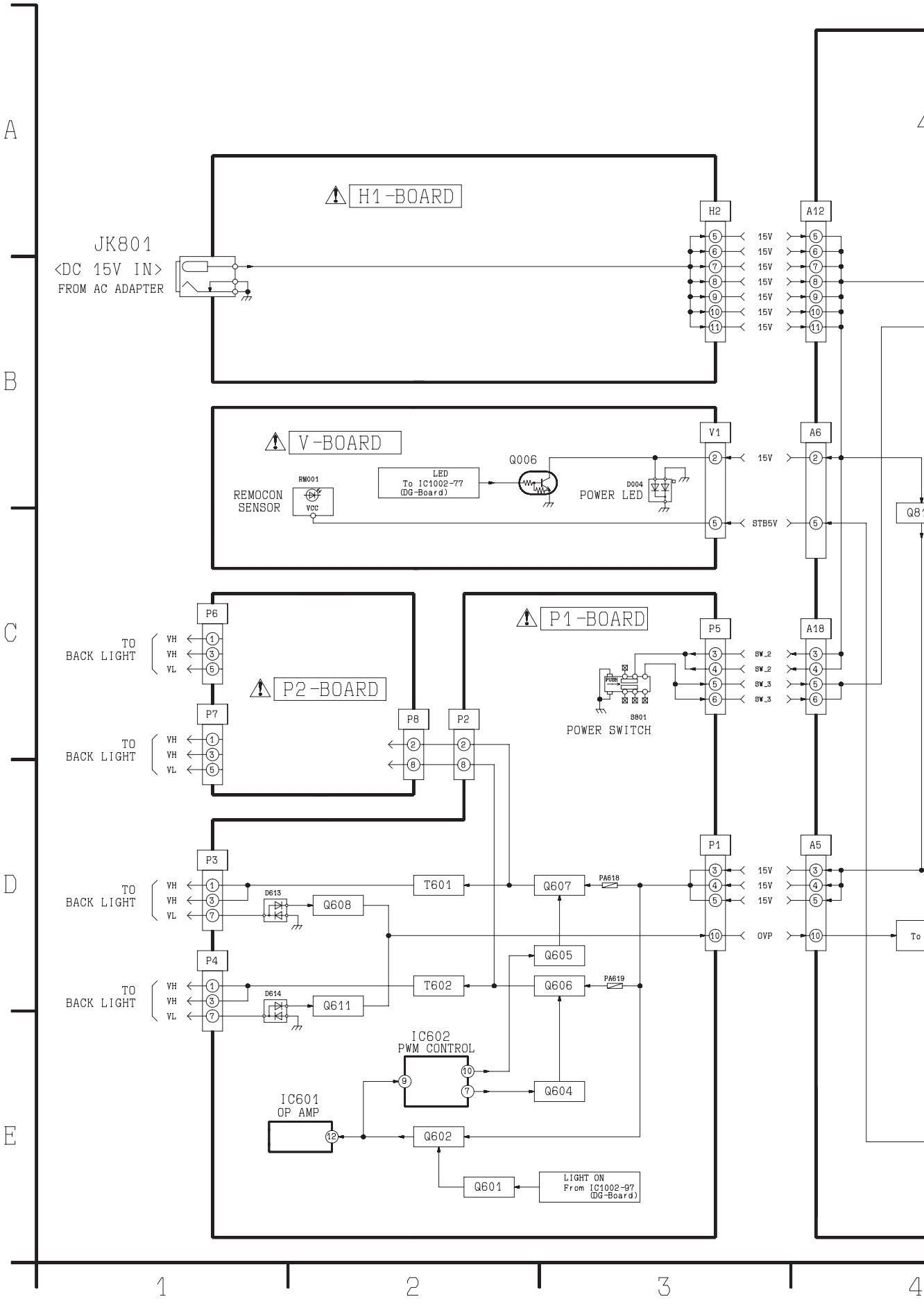
Notes:

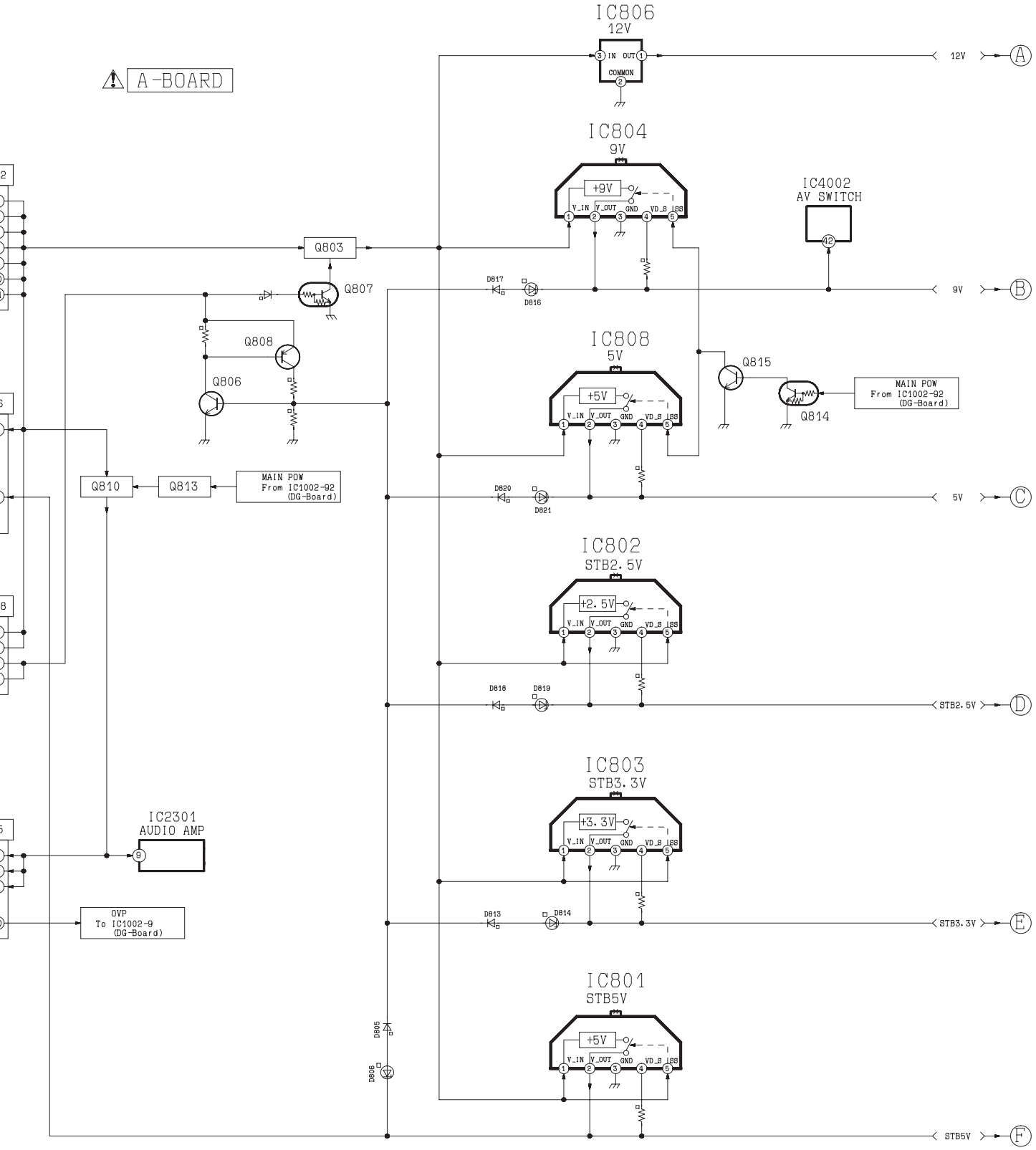
1. **Resistor**
   All resistors are cabon 1/4W resistor, unless marked as follows:
   Unit of resistance is OHM [Ω] (K=1,000, M=1,000,000).
   ◯ : Nonflammable ⊠ : Metal Oxide
   △ : Solid ◎ : Metal Film
   ⊿ : Wire Wound ⊗ : Fuse:
2. **Capacitor**
   All capacitors are ceramic 50V capacitor, unless marked as follows:
   Unit of capacitance is μF, unless otherwise noted.
   ⊗ : Temperature Compensation : Electrolytic
   Ⓜ : Polyester NP : Bipolar
   ⓜ : Metalized Polyester Ⓣ : Dipped Tantalum
   ⊠ : Polypropylene Ⓩ : Z-Type
3. Coil
   Unit of inductance is μF, unless otherwise noted.
4. Test Point
   ⚲ : Test Point position
5. Earth Symbol
   ⏚ : Chassis Earth (Cold) ⏚ : Line Earth (Hot)
6. Voltage Measurement
   Voltage is measured by a DC voltmeter.
   Conditions of the measurement are the following:
   Power Source ..... AC 110-240V, 50/60Hz
   Receiving Signal ..... Colour Bar signal (RF)
   All customer's controls ..... Maximum positions
7. Number in red circle indicates waveform nember.
   (See waveform pattern table.)
8. When arrow mark (↗) is found, connection is easily found from the direction of arrow
9. Indicates the major signal flow. : Video ➡ Audio ⇨
10. This schematic diagram is the latest at the time of printing and subject to change without notice.

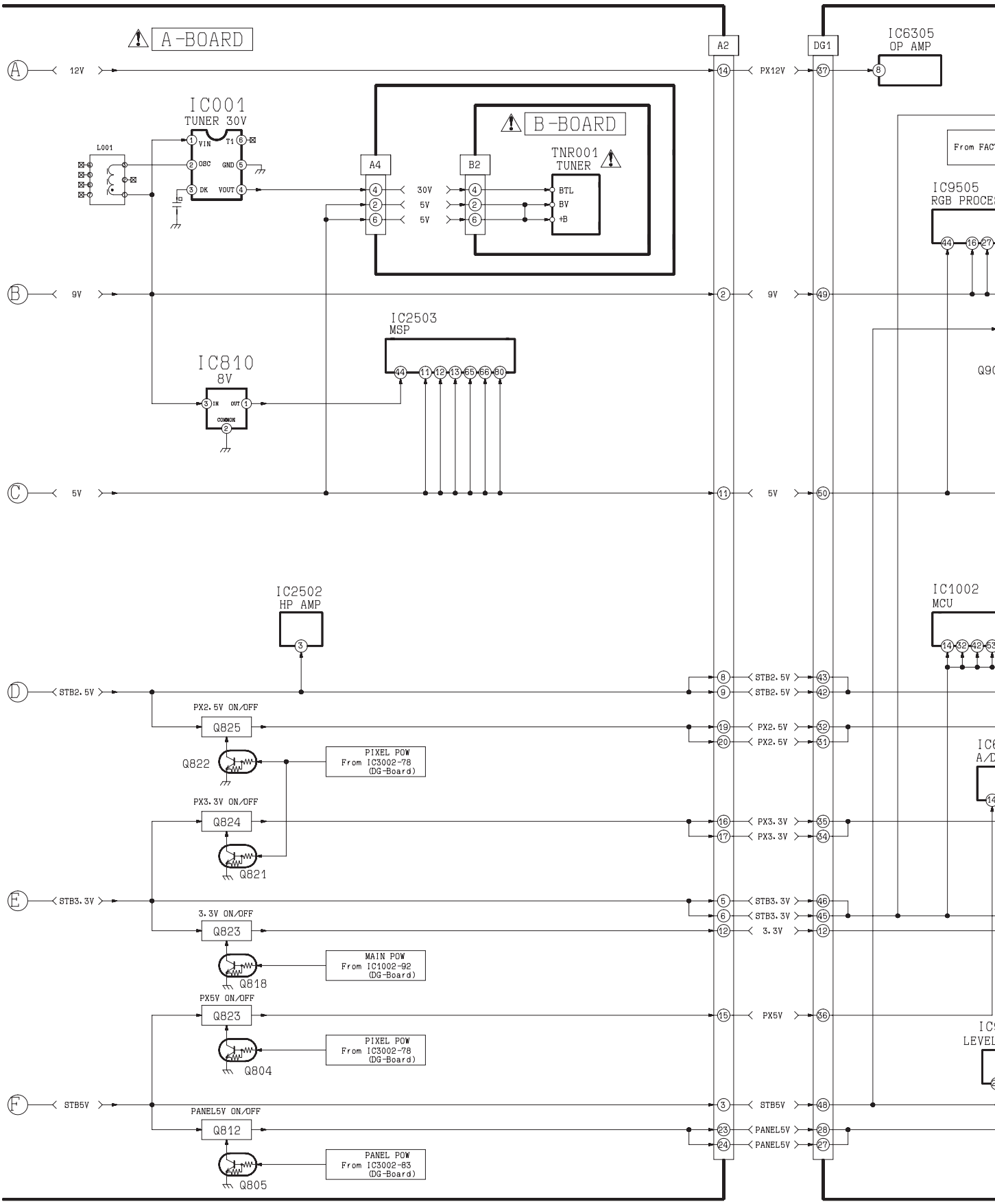
Remarks:

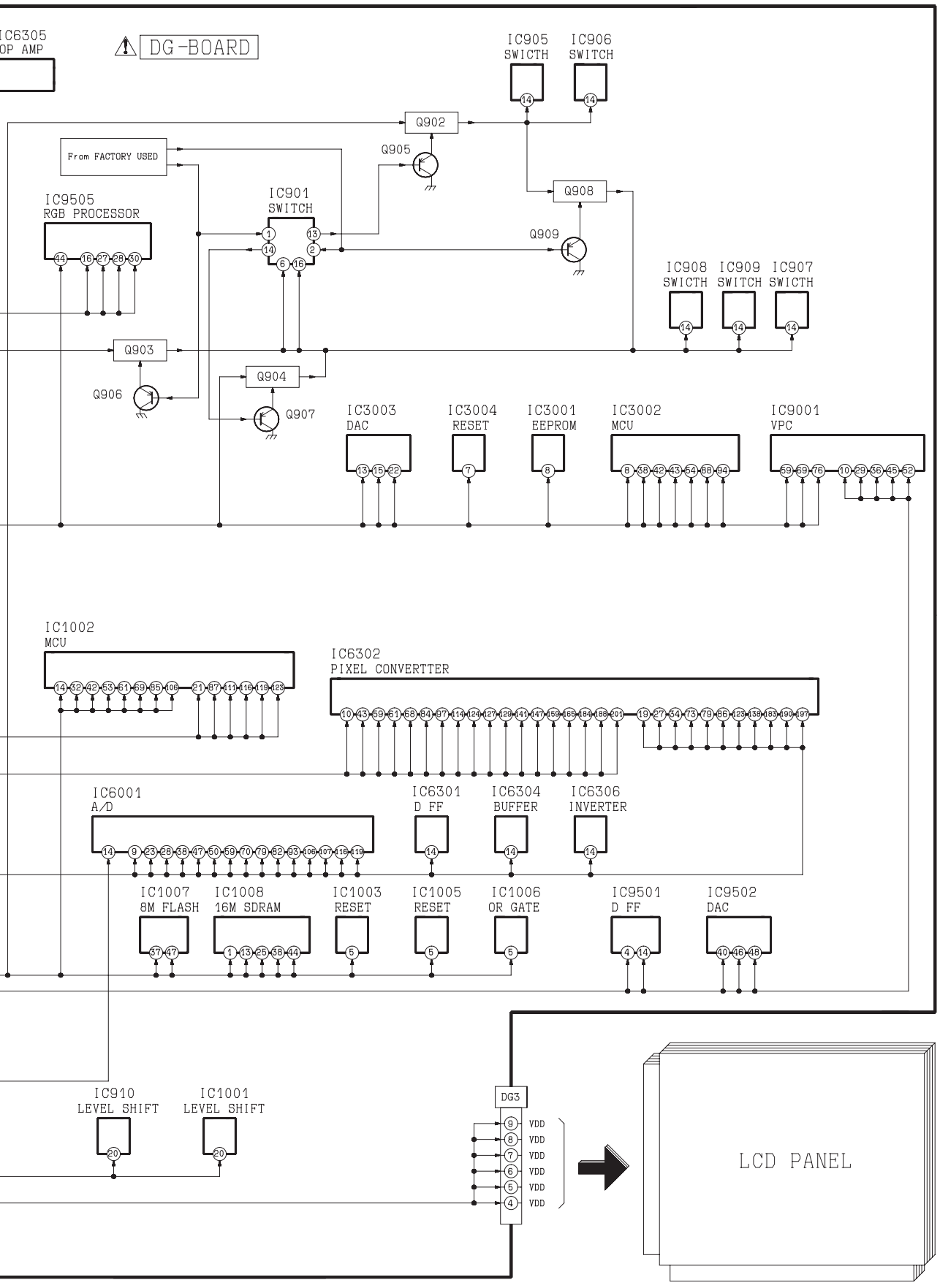
1. The Power Circuit contains a circuit area which uses a separate power supply to isolate the earth connection.
   The circuit is defined by HOT and COLD indications in the schematic diagram. Take the follwing precautions.
   All circuits, except the Power Circuit, are cold.
   Precautions
   a. Do not touch the hot part or the hot and cold parts at the same time or you may be shocked.
   b. Do not short- circuit the hot and cold circuits or a fuse may blow and parts may break.
   c. Do not connect an instrument, such as an oscilloscope, to the hot and cold circuits simultaneously or a fuse may blow.
      Connect the earth of instruments to the earth connection of the circuit being measured.
   d. Make sure to disconnect the power plug before removing the chassis.
2. Following diodes are interchangeable.
   MA150- MA162 (Replacement part)

9.2. Power Block Diagram



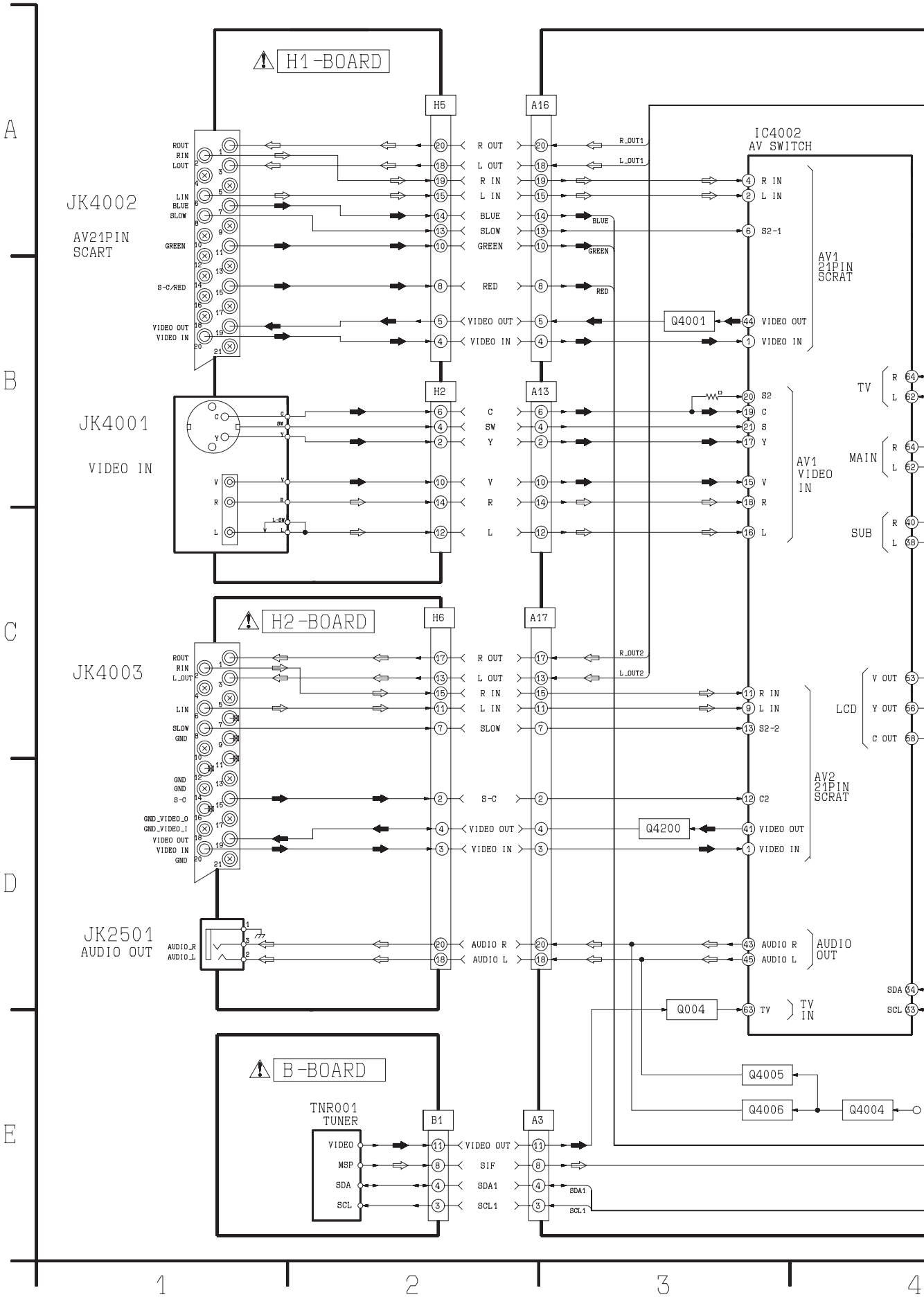

A-BOARD
IC806
12V
IN
OUT
COMMON
12V
A
IC804
9V
+9V
V_IN
V_OUT
GND
VD_S
ISS
IC4002
AV SWITCH
42
Q803
Q807
D817
D816
9V
B
Q808
Q806
IC808
5V
+5V
Q815
Q814
MAIN POW
From IC1002-92
(DG-Board)
Q810
Q813
MAIN POW
From IC1002-92
(DG-Board)
D820
D821
5V
C
IC802
STB2.5V
+2.5V
D818
D819
STB2.5V
D
IC803
STB3.3V
+3.3V
IC2301
AUDIO AMP
9
OVP
To IC1002-9
(DG-Board)
D813
D814
STB3.3V
E
IC801
STB5V
+5V
D805
D806
STB5V
F

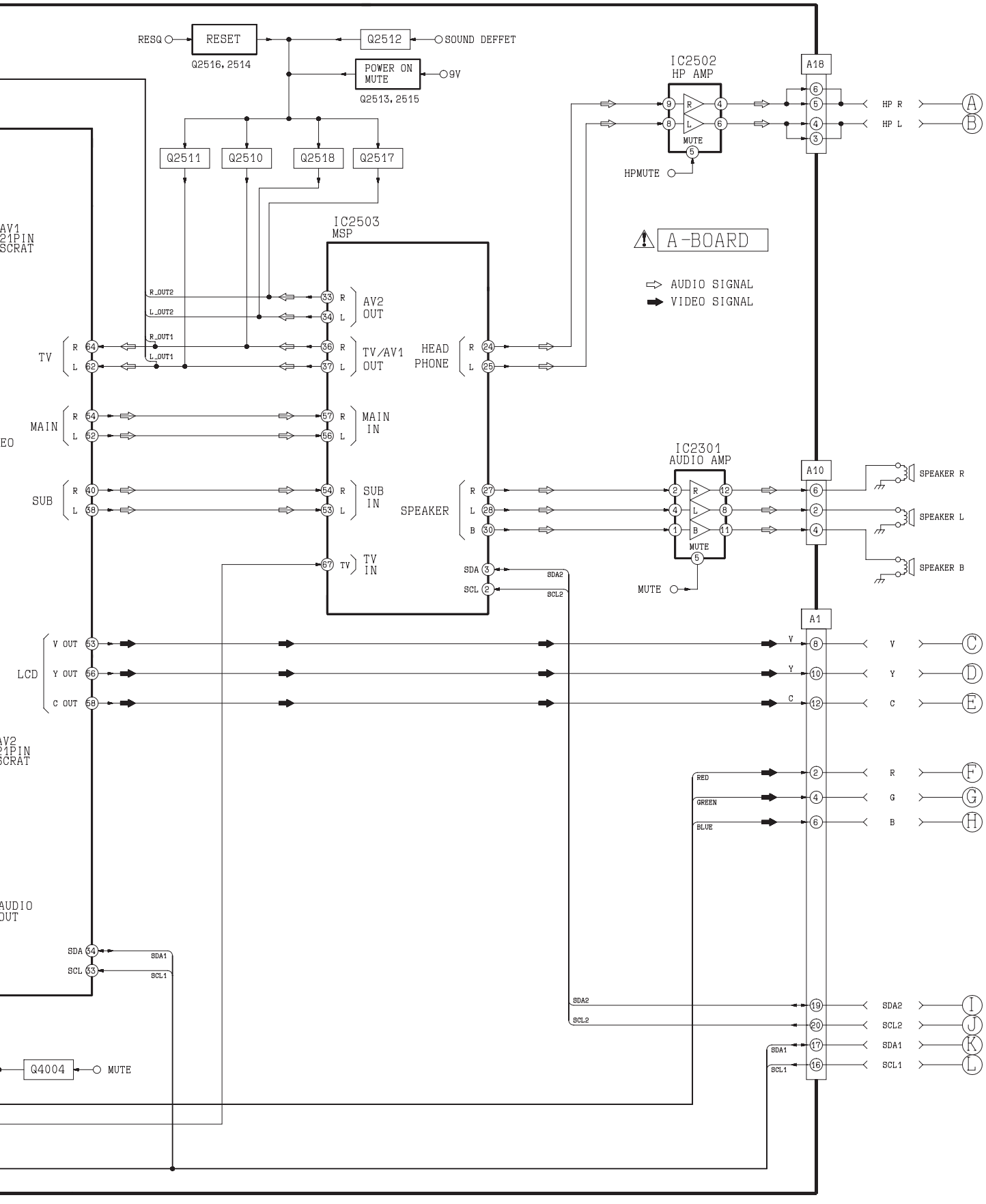

A-BOARD
A2
DG1
IC6305
OP AMP
12V
PX12V
IC001
TUNER 30V
L001
VIN
OSC
GND
DK
VOUT
A4
B2
B-BOARD
TNR001
TUNER
BTL
BV
+B
30V
5V
5V
9V
IC2503
MSP
IC810
8V
IN
OUT
COMMON
5V
IC2502
HP AMP
IC1002
MCU
STB2.5V
PX2.5V ON/OFF
Q825
Q822
PIXEL POW
From IC3002-78
(DG-Board)
PX3.3V ON/OFF
Q824
Q821
STB3.3V
3.3V ON/OFF
Q823
Q818
MAIN POW
From IC1002-92
(DG-Board)
PX5V ON/OFF
Q823
Q804
PIXEL POW
From IC3002-78
(DG-Board)
STB5V
PANEL5V ON/OFF
Q812
Q805
PANEL POW
From IC3002-83
(DG-Board)
PX2.5V
PX3.3V
PX5V
PANEL5V
3.3V
IC9505
RGB PROCE
From FAC
8
9
10
11

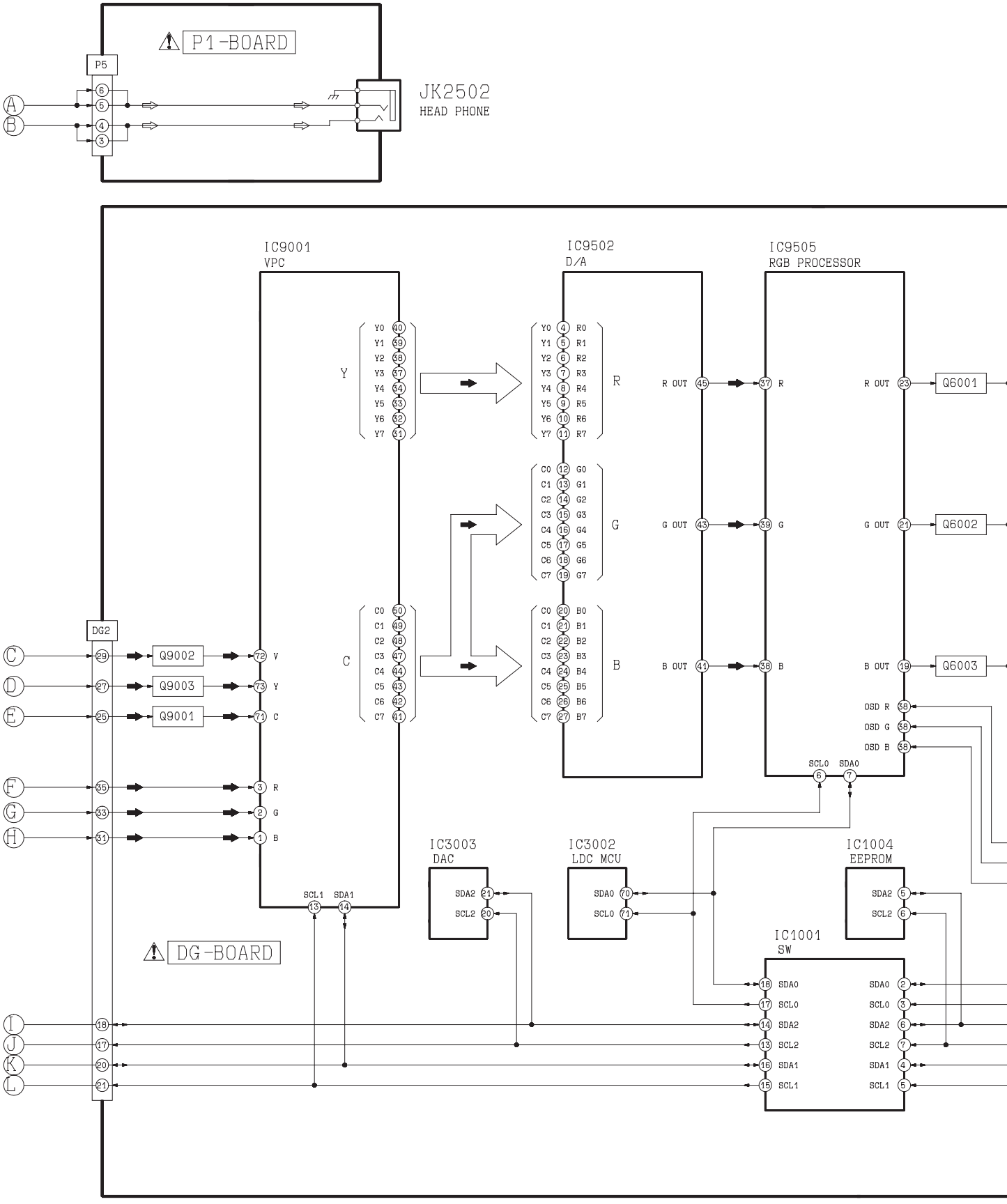

IC6305
OP AMP
DG-BOARD
IC905
SWICTH
IC906
SWICTH
Q902
Q905
From FACTORY USED
Q908
IC9505
RGB PROCESSOR
IC901
SWITCH
Q909
IC908
SWICTH
IC909
SWICTH
IC907
SWICTH
Q903
Q904
Q906
Q907
IC3003
DAC
IC3004
RESET
IC3001
EEPROM
IC3002
MCU
IC9001
VPC
IC1002
MCU
IC6302
PIXEL CONVERTTER
IC6001
A/D
IC6301
D FF
IC6304
BUFFER
IC6306
INVERTER
IC1007
8M FLASH
IC1008
16M SDRAM
IC1003
RESET
IC1005
RESET
IC1006
OR GATE
IC9501
D FF
IC9502
DAC
IC910
LEVEL SHIFT
IC1001
LEVEL SHIFT
DG3
VDD
VDD
VDD
VDD
VDD
VDD
LCD PANEL

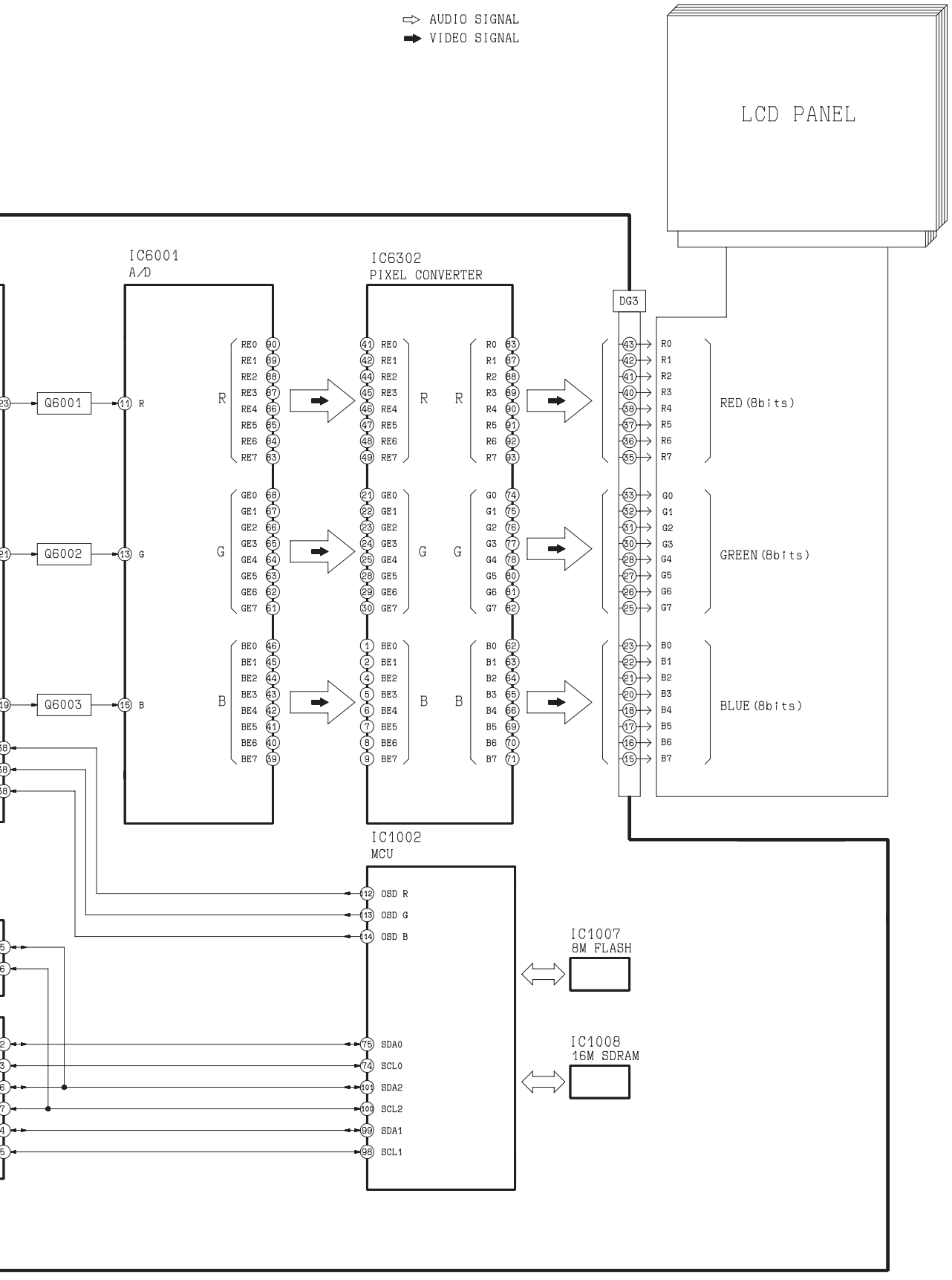
11 12 13 14

9.3. Signal Block Diagram

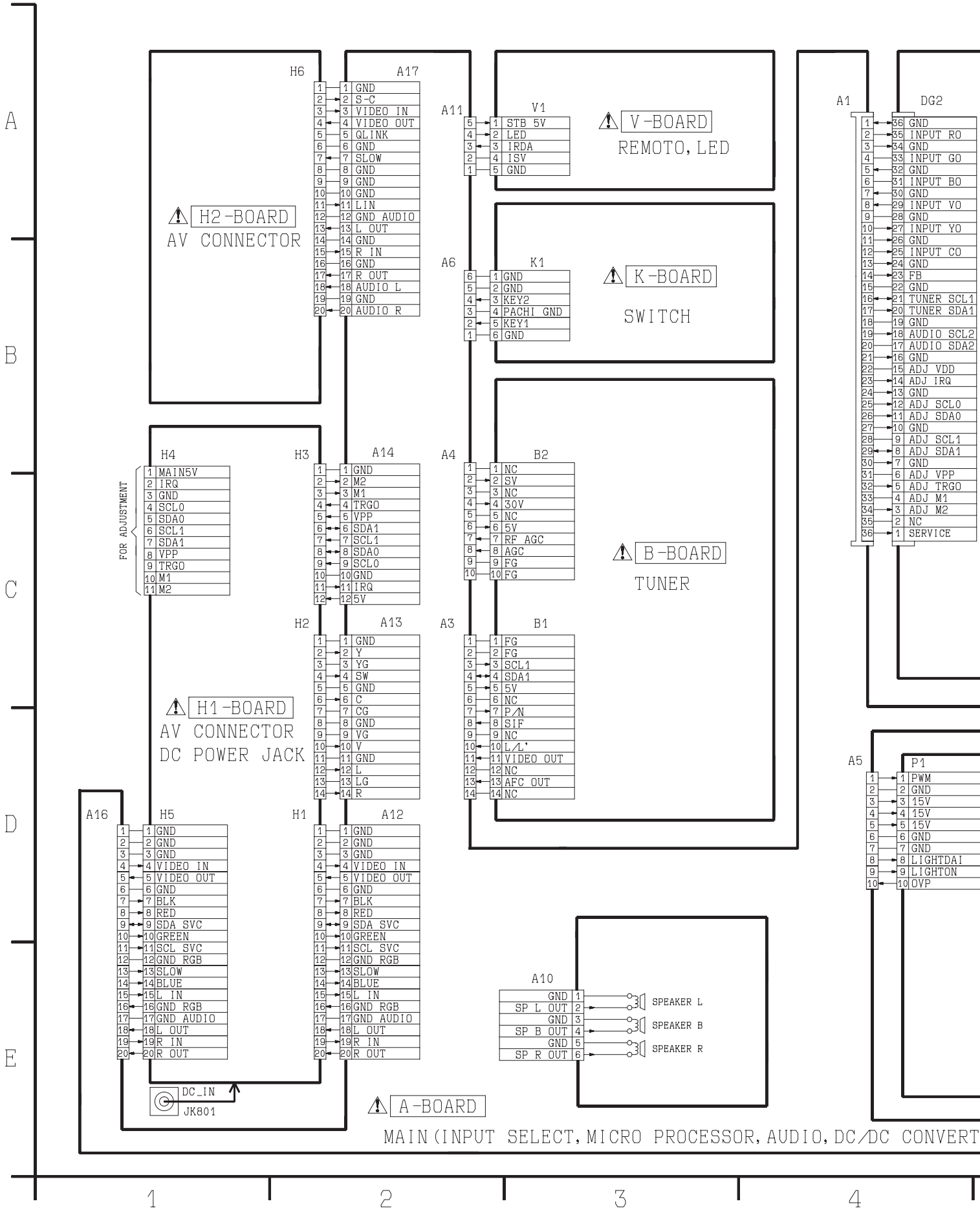


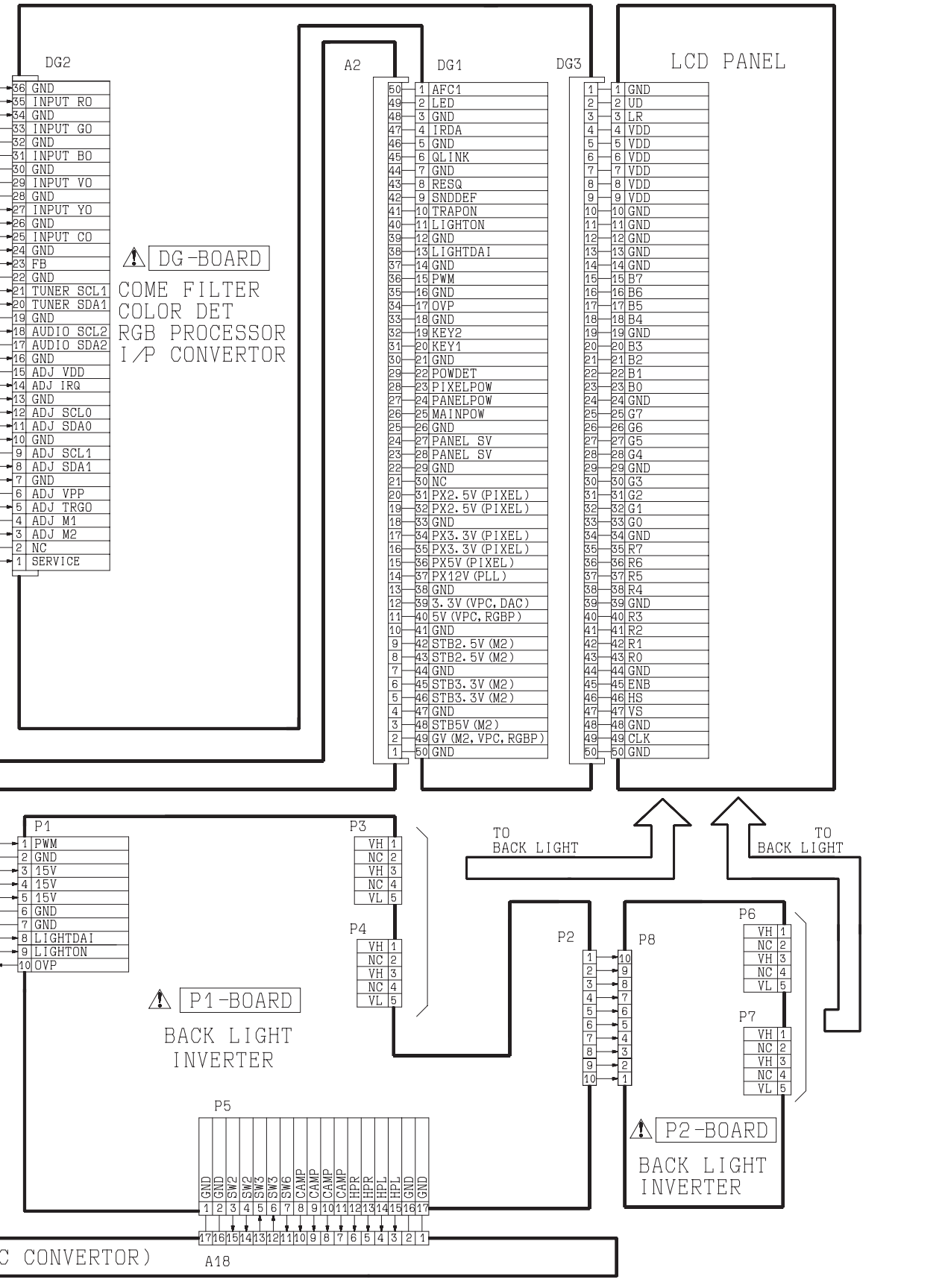

RESQ
RESET
Q2516, 2514
Q2512
SOUND DEFFET
POWER ON MUTE
Q2513, 2515
9V
Q2511
Q2510
Q2518
Q2517
IC2502
HP AMP
A18
HP R
HP L
MUTE
HPMUTE
IC2503
MSP
A-BOARD
AUDIO SIGNAL
VIDEO SIGNAL
R_OUT2
L_OUT2
R_OUT1
L_OUT1
AV2 OUT
TV/AV1 OUT
TV
HEAD PHONE
MAIN
MAIN IN
SUB
SUB IN
SPEAKER
TV IN
IC2301
AUDIO AMP
A10
SPEAKER R
SPEAKER L
SPEAKER B
MUTE
SDA
SCL
SDA2
SCL2
A1
LCD
V OUT
Y OUT
C OUT
V
Y
C
RED
GREEN
BLUE
R
G
B
SDA1
SCL1
Q4004
MUTE
4
5
6
7


P1-BOARD
P5
JK2502
HEAD PHONE
IC9001
VPC
IC9502
D/A
IC9505
RGB PROCESSOR
DG2
Q9002
Q9003
Q9001
Q6001
Q6002
Q6003
R OUT
G OUT
B OUT
OSD R
OSD G
OSD B
IC3003
DAC
IC3002
LDC MCU
IC1004
EEPROM
IC1001
SW
SCL1 SDA1
SCL0 SDA0
DG-BOARD

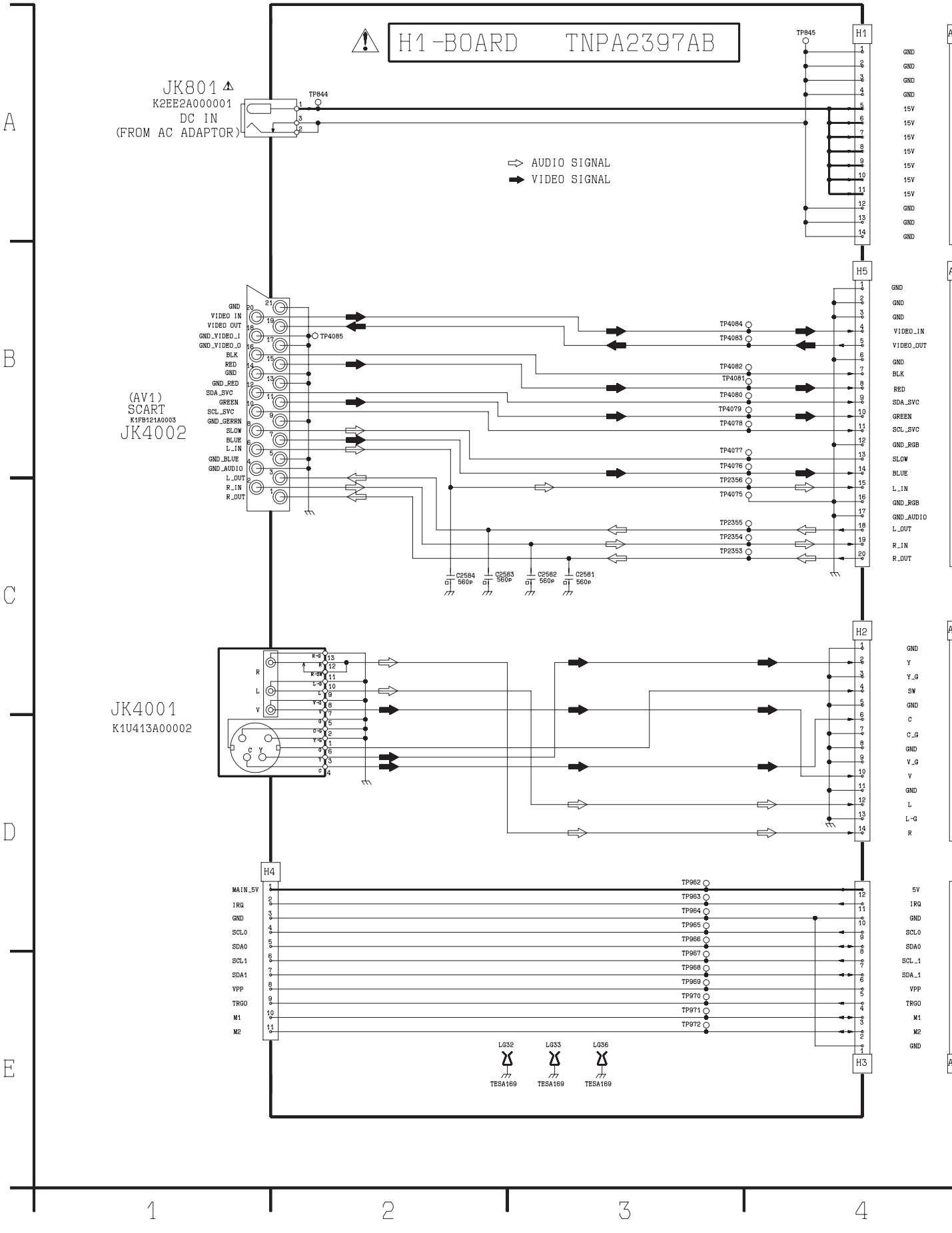

AUDIO SIGNAL
VIDEO SIGNAL
LCD PANEL
IC6001
A/D
IC6302
PIXEL CONVERTER
DG3
Q6001
Q6002
Q6003
RED (8bits)
GREEN (8bits)
BLUE (8bits)
IC1002
MCU
OSD R
OSD G
OSD B
IC1007
8M FLASH
IC1008
16M SDRAM
SDA0
SCL0
SDA2
SCL2
SDA1
SCL1

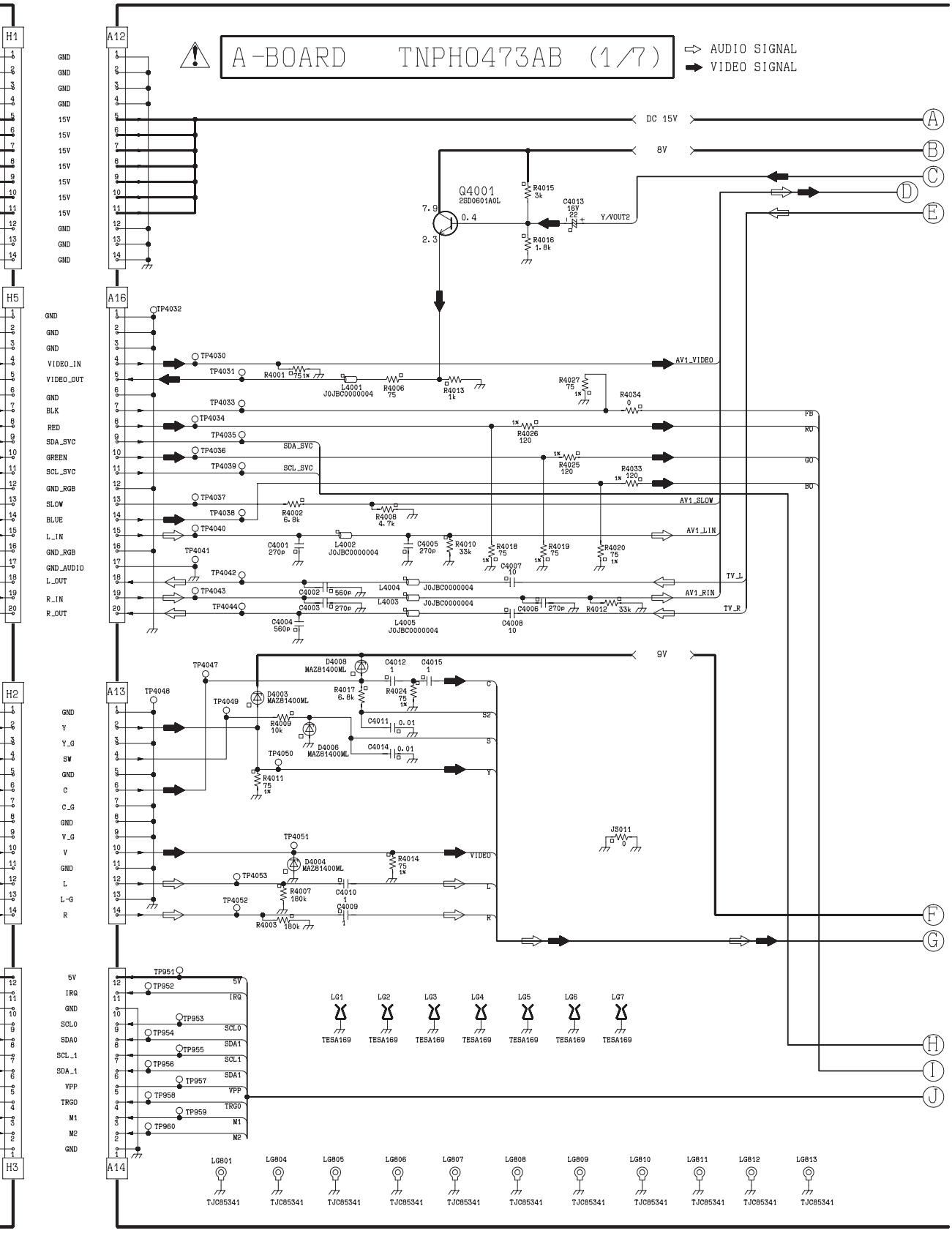
9.4. Interconnection Schematic Diagram



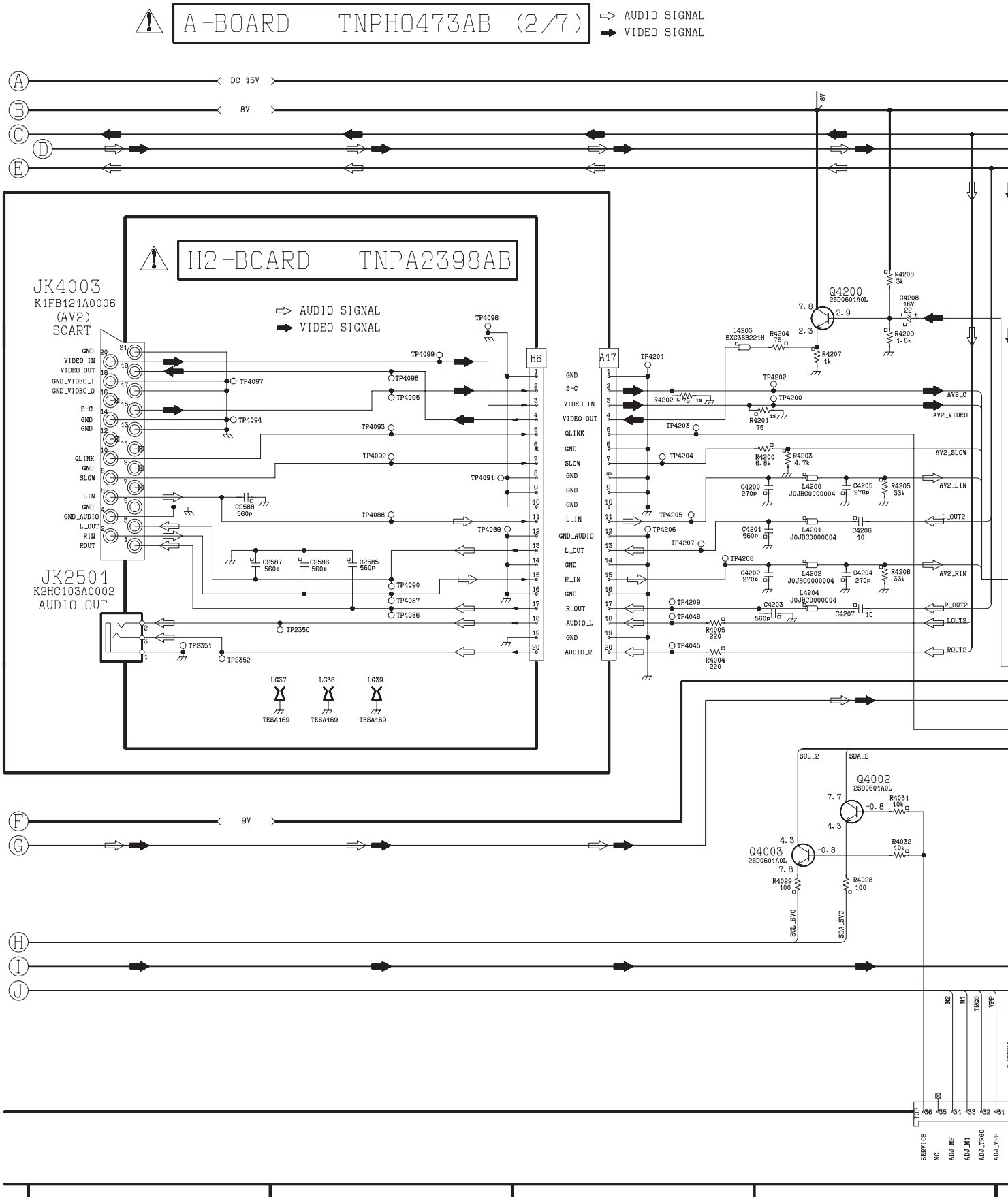

DG2
A2
DG1
DG3
LCD PANEL
DG-BOARD
COME FILTER
COLOR DET
RGB PROCESSOR
I/P CONVERTOR
P1
P3
P4
P2
P8
P6
P7
P5
TO
BACK LIGHT
TO
BACK LIGHT
P1-BOARD
BACK LIGHT
INVERTER
P2-BOARD
BACK LIGHT
INVERTER
A18
C CONVERTOR)

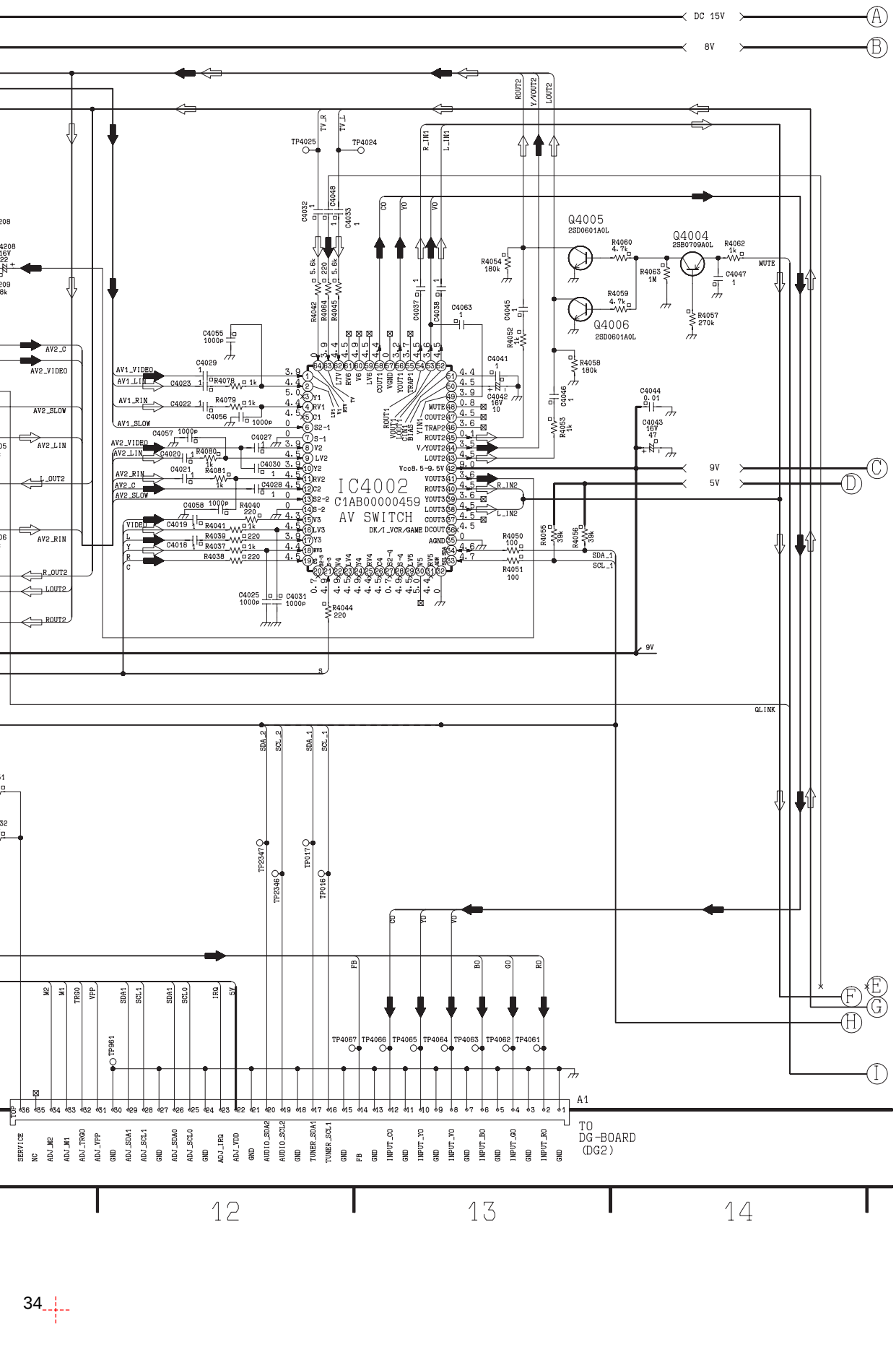
9.5. A-Board (1 of 7) and H1-Board Schematic Diagram



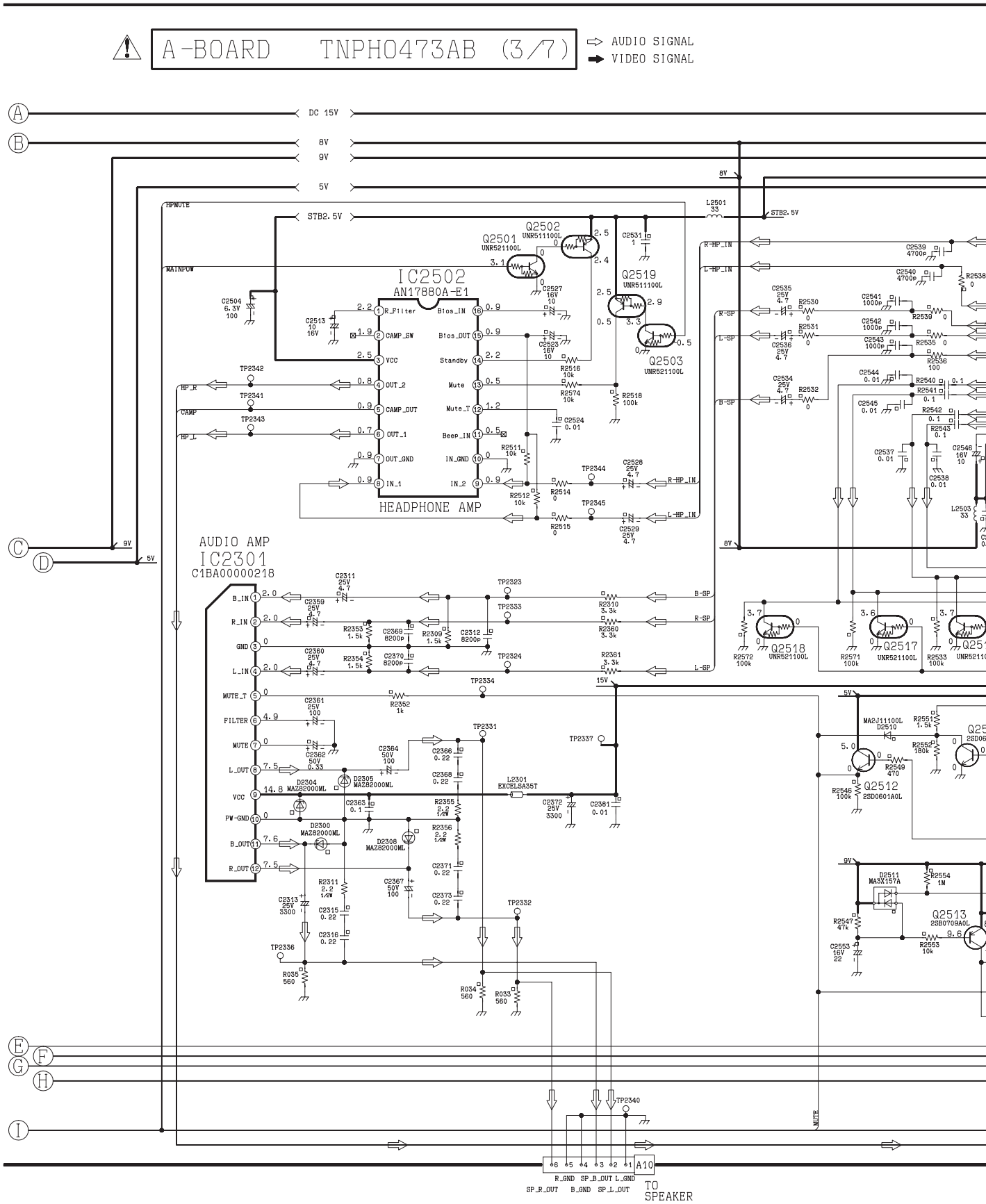

A-BOARD TNPH0473AB (1/7)
AUDIO SIGNAL
VIDEO SIGNAL
DC 15V
8V
9V
Q4001
2SD0601A0L
AV1_VIDEO
AV1_SLOW
AV1_LIN
AV1_RIN
TV_L
TV_R
Y/VOUT2
SDA_SVC
SCL_SVC
VIDEO
FB
RO
GO
BO
C
S2
S
Y
L
R
5V
IRQ
SCL0
SDA0
SCL_1
SDA_1
VPP
TRG0
M1
M2
GND
VIDEO_IN
VIDEO_OUT
BLK
RED
GREEN
GND_RGB
SLOW
BLUE
L_IN
GND_AUDIO
L_OUT
R_IN
R_OUT
V_G
C_G
L-G
TESA169
TJC85341

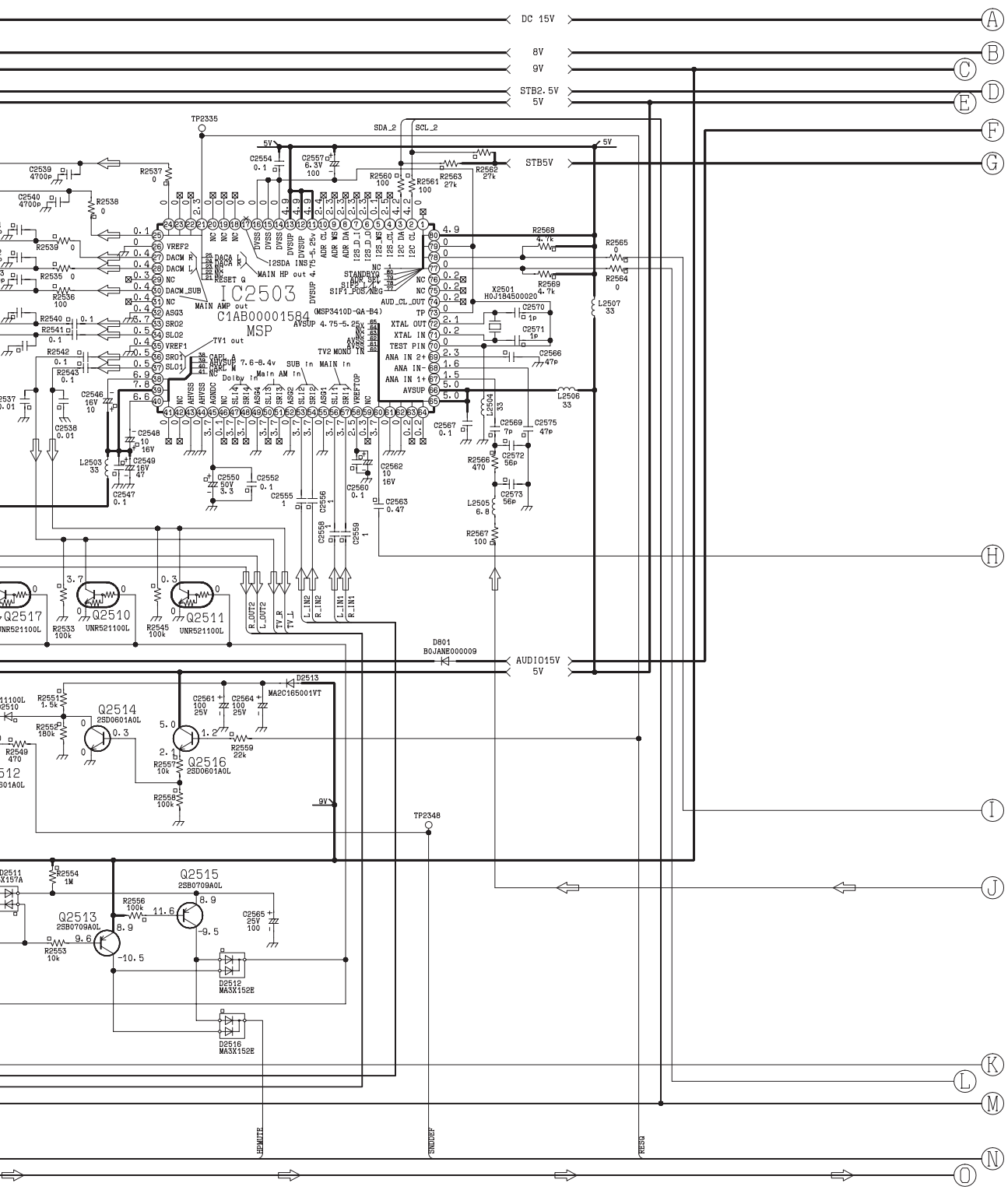
9.6. A-Board (2 of 7) and H2-Board Schematic Diagram



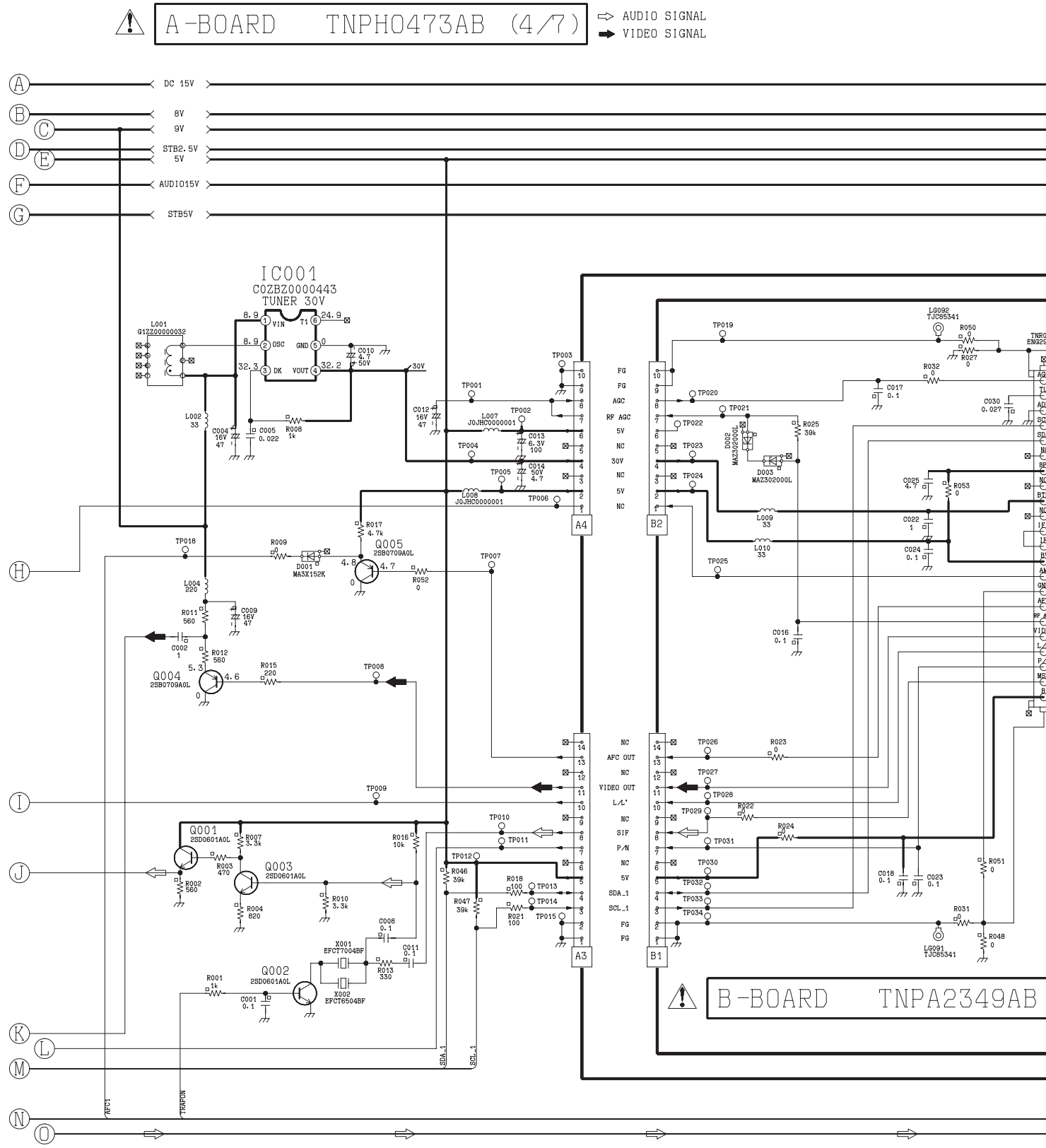

DC 15V
8V
9V
5V
IC4002
C1AB00000459
AV SWITCH
DK/1_VCR/GAME
Q4005
2SD0601A0L
Q4004
2SB0709A0L
Q4006
2SD0601A0L
TO
DG-BOARD
(DG2)
12
13
14

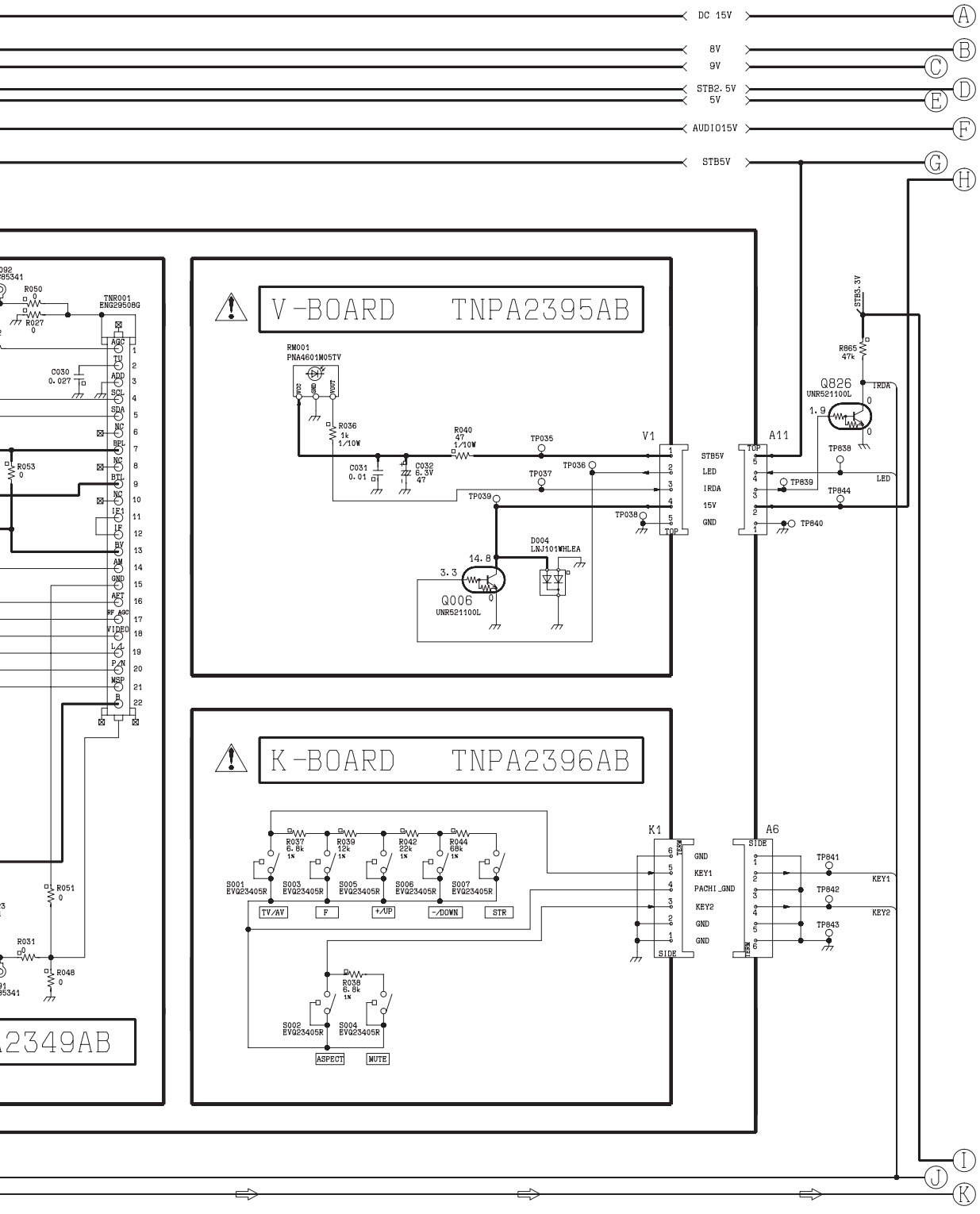
9.7. A-Board (3 of 7) Schematic Diagram



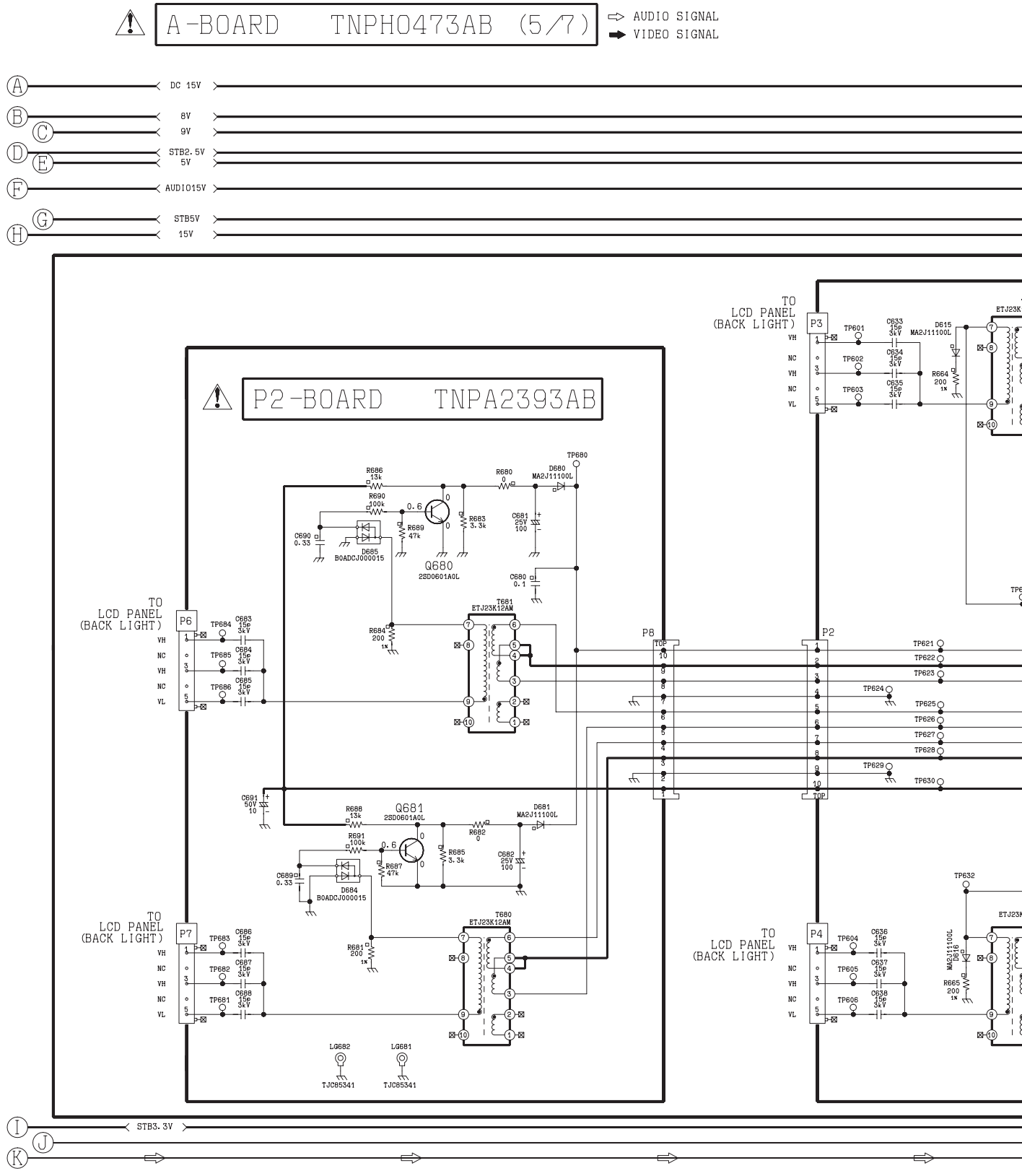

DC 15V
8V
9V
STB2.5V
5V
STB5V
AUDIO15V
5V
SDA_2
SCL_2
TP2335
TP2348
IC2503
C1AB00001584
MSP
(MSP3410D-QA-B4)
MAIN AMP out
MAIN HP out
TV1 out
SUB in
MAIN in
Main AM in
Dolby in
TV2 MONO IN
AVSUP 4.75-5.25v
7.6-8.4v
Q2517
Q2510
Q2511
Q2514
2SD0601A0L
Q2516
2SD0601A0L
Q2515
2SB0709A0L
Q2513
2SB0709A0L
D2513
MA2C165001VT
D2512
MA3X152E
D2516
MA3X152E
D801
B0JANE000009
X2501
H0J184500020
HPWITH
SNDDEF
RESN
A
B
C
D
E
F
G
H
I
J
K
L
M
N
O

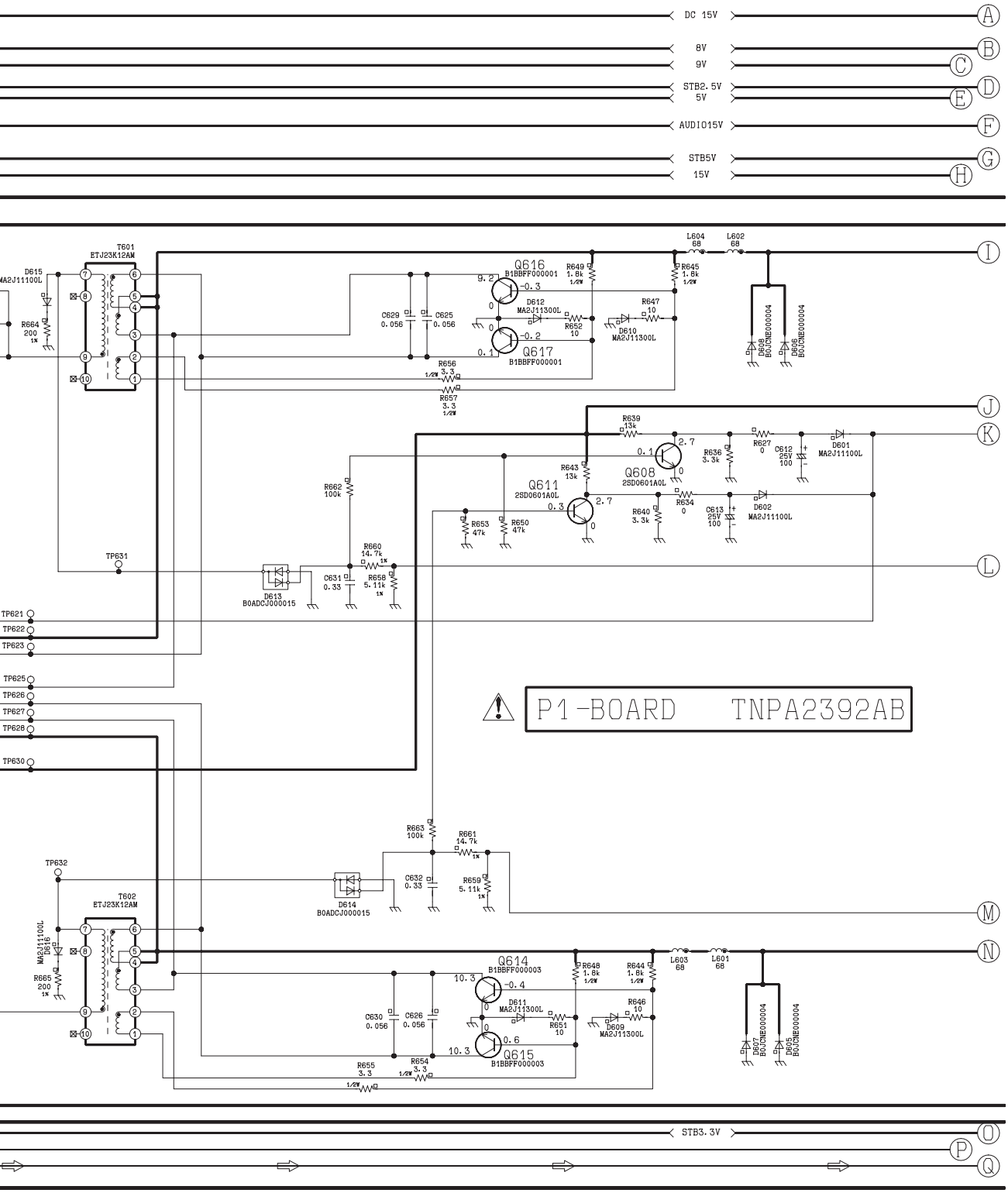
9.8. A-Board (4 of 7), B-Board, K-Board and V-Board Schematic Diagram



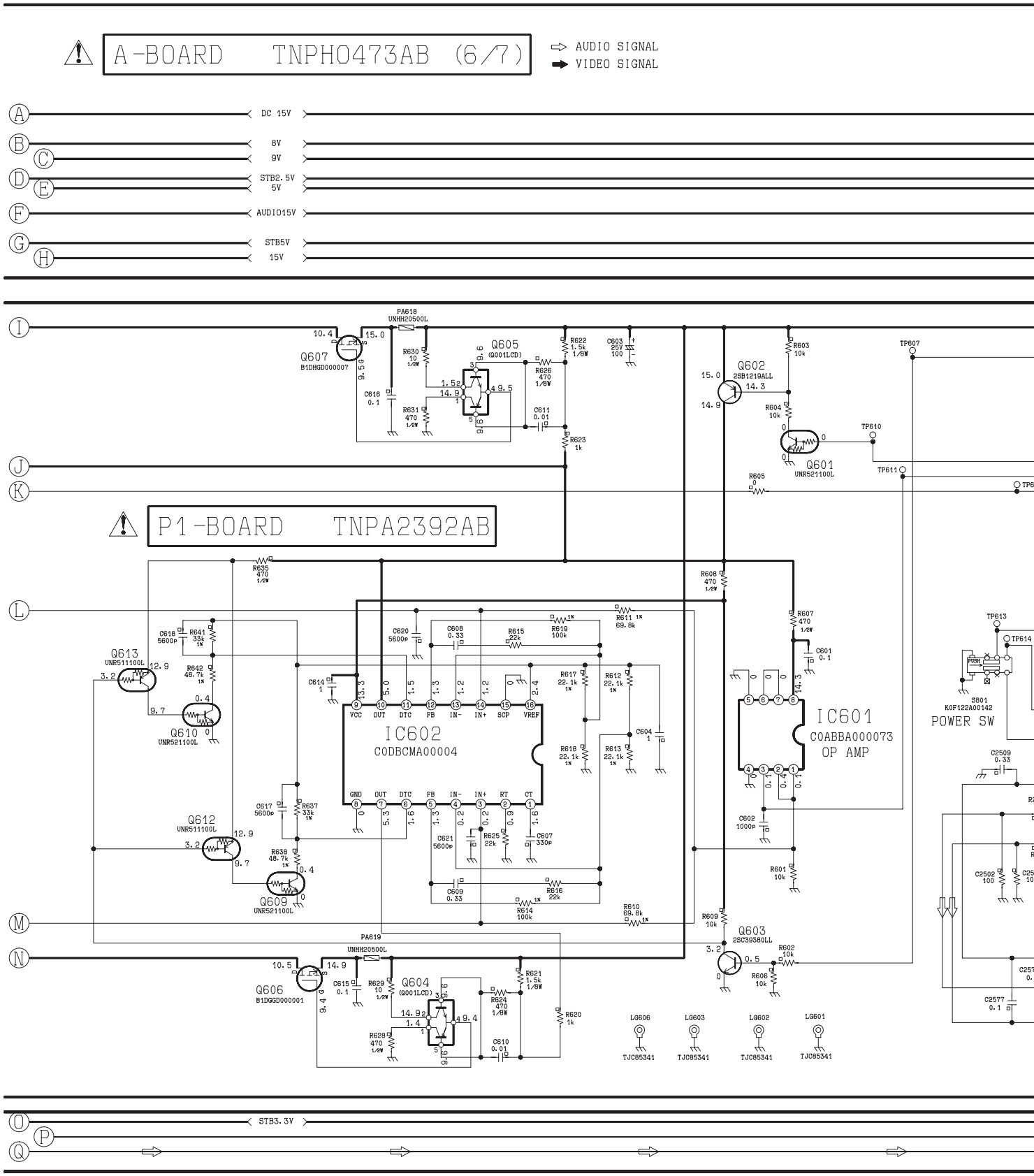

DC 15V
8V
9V
STB2.5V
5V
AUDIO15V
STB5V
V-BOARD TNPA2395AB
K-BOARD TNPA2396AB
TNR001
ENG29508G
RM001
PNA4601M05TV
V1
A11
A6
K1
Q826
UNR521100L
Q006
UNR521100L
D004
LNJ101WHLEA
R865
47k
R036
1k
1/10W
R040
47
1/10W
C030
0.027
C031
0.01
C032
6.3V
47
R050
0
R027
0
R053
0
R051
0
R031
0
R048
0
TP035
TP036
TP037
TP038
TP039
TP838
TP839
TP840
TP841
TP842
TP843
TP844
STB5.3V
IRDA
LED
15V
GND
KEY1
KEY2
PACHI_GND
S001
EVQ23405R
S002
EVQ23405R
S003
EVQ23405R
S004
EVQ23405R
S005
EVQ23405R
S006
EVQ23405R
S007
EVQ23405R
TV/AV
F
+/UP
-/DOWN
STR
ASPECT
MUTE

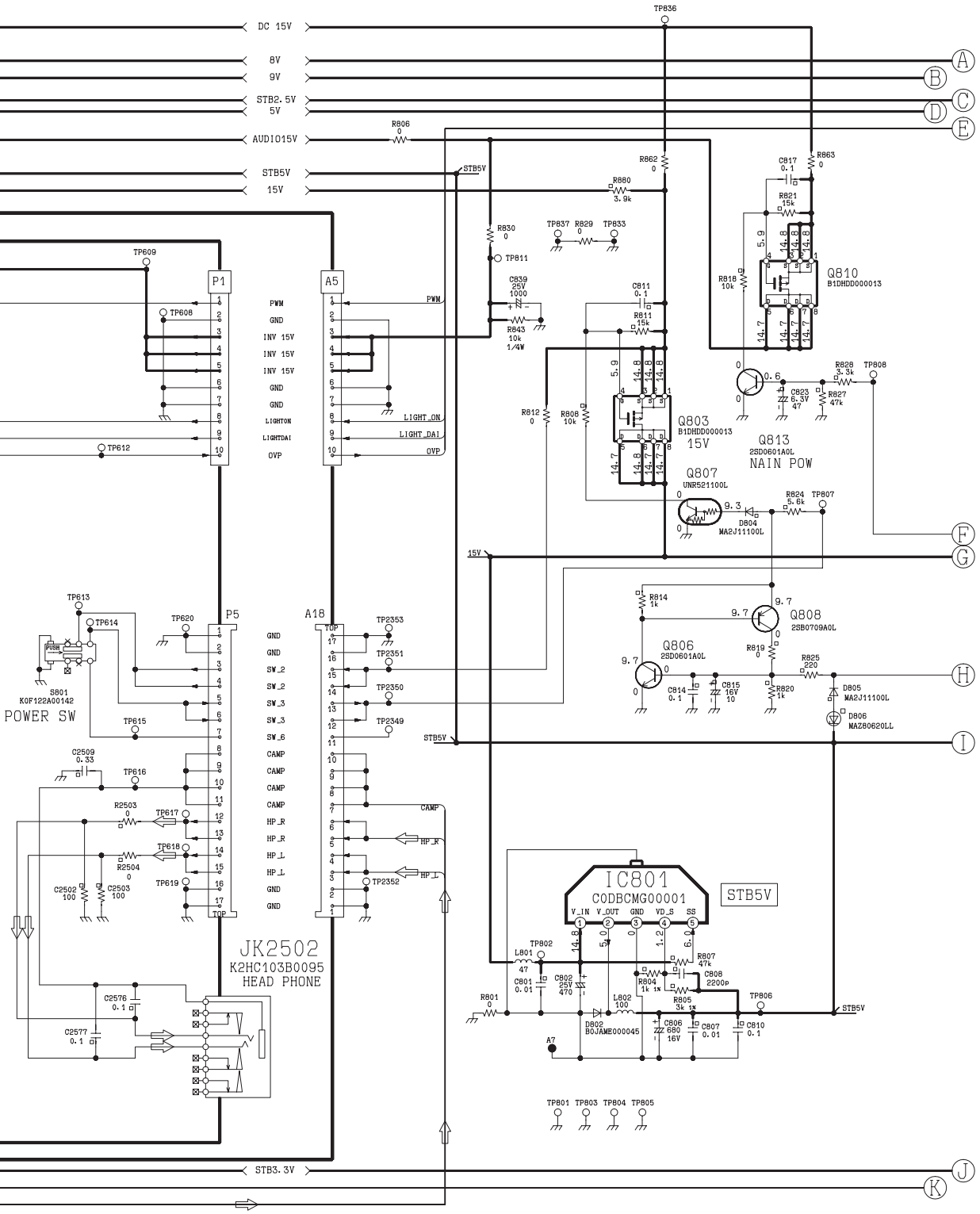
9.9. A-Board (5 of 7), P1-Board and P2-Board Schematic Diagram



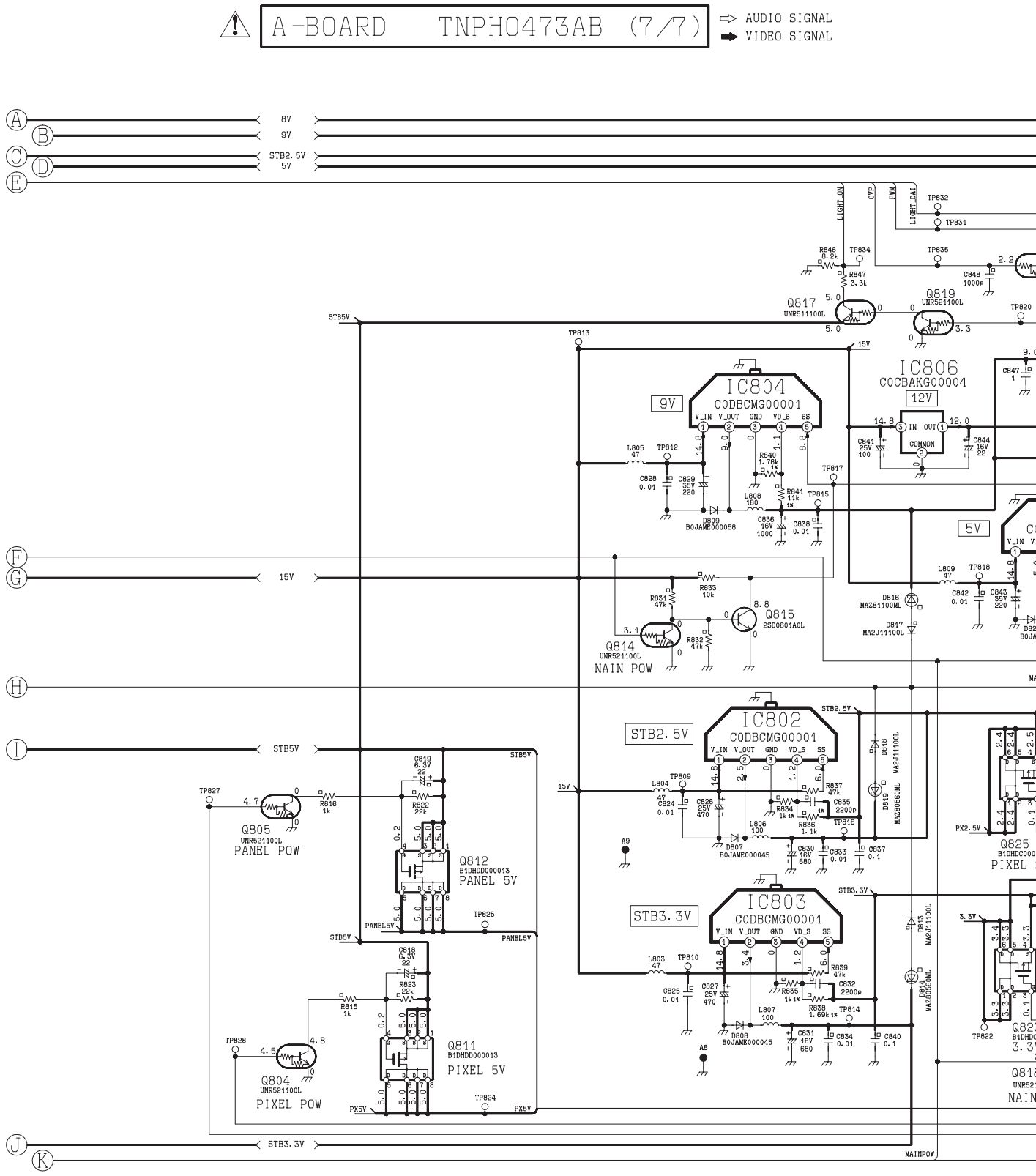

DC 15V
8V
9V
STB2.5V
5V
AUDIO15V
STB5V
15V
P1-BOARD TNPA2392AB
STB3.3V
T601
ETJ23K12AM
T602
ETJ23K12AM
Q616
B1BBFF000001
Q617
B1BBFF000001
Q608
2SD0601A0L
Q611
2SD0601A0L
Q614
B1BBFF000003
Q615
B1BBFF000003
D613
B0ADCJ000015
D614
B0ADCJ000015
TP621
TP622
TP623
TP625
TP626
TP627
TP628
TP630
TP631
TP632
32
33
34
35

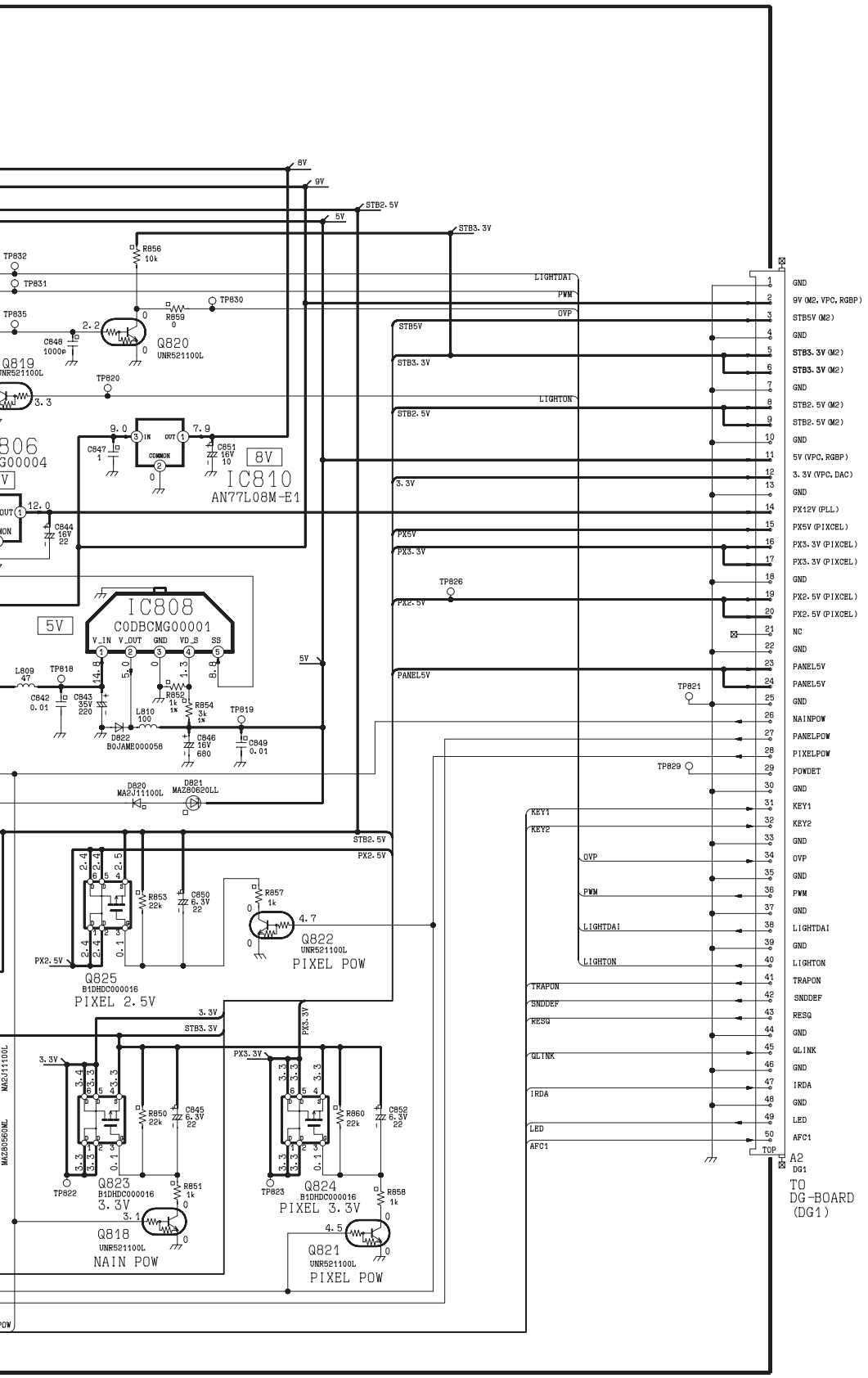
9.10. A-Board (6 of 7) and P1-Board Schematic Diagram



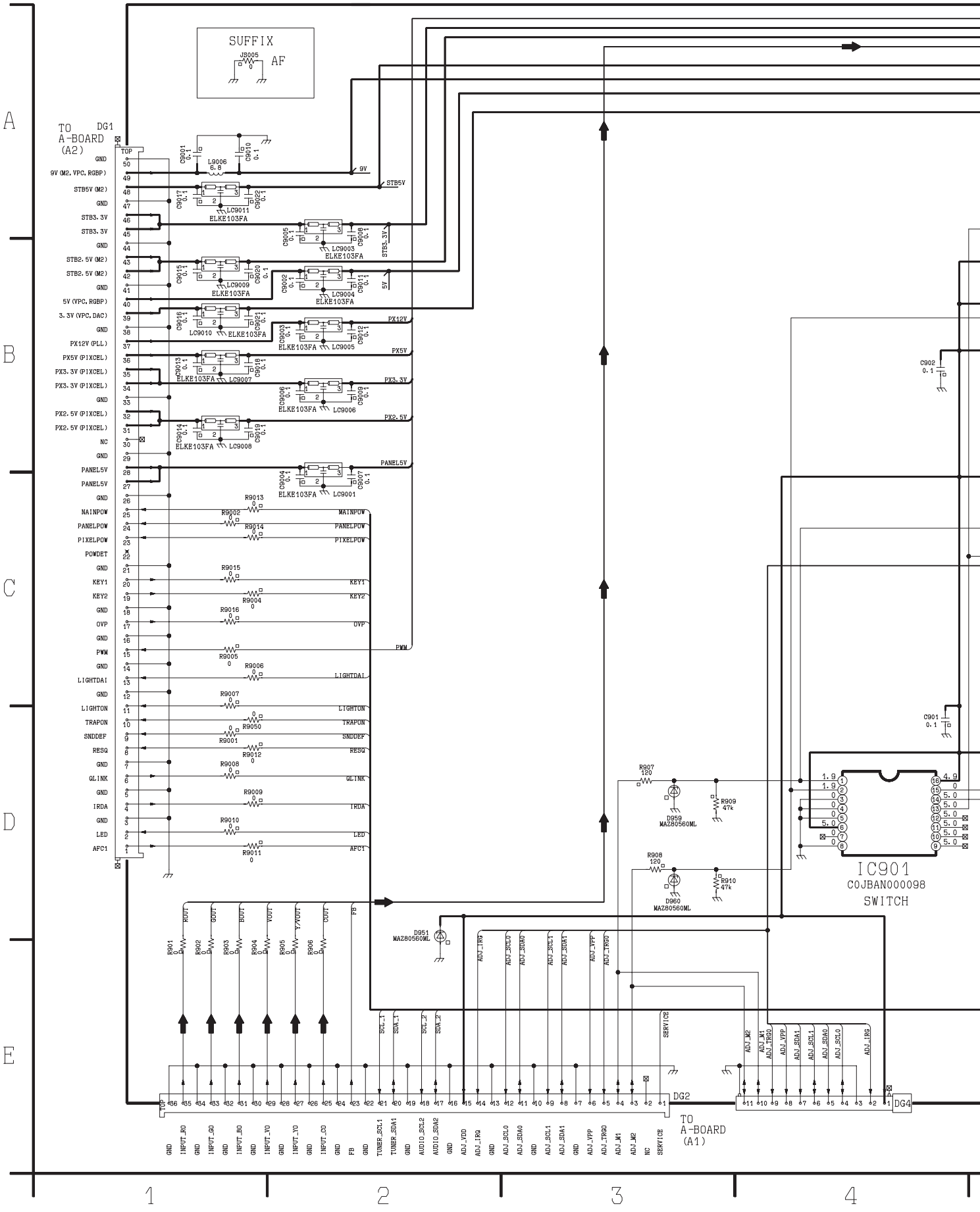

DC 15V
8V
9V
STB2.5V
5V
AUDIO15V
STB5V
15V
STB3.3V
TP836
R806
R862
R860
3.9k
C817
0.1
R863
R821
15k
R830
TP811
TP837
R829
TP833
C839
25V
1000
R643
10k
1/4W
C811
0.1
R811
15k
R818
10k
Q810
B1DHDD000013
R812
R808
10k
Q803
B1DHDD000013
15V
Q813
2SD0601A0L
NAIN POW
Q807
UNR521100L
D804
MA2J11100L
R824
5.6k
TP807
R828
3.3k
TP808
C823
6.3V
47
R827
47k
TP609
TP608
TP612
P1
A5
PWM
GND
INV 15V
INV 15V
INV 15V
GND
GND
LIGHTON
LIGHTDAI
OVP
LIGHT_ON
LIGHT_DAI
TP613
TP614
TP620
P5
A18
S801
K0F122A00142
POWER SW
TP615
TP616
TP617
TP618
TP619
C2509
0.33
R2503
0
R2504
0
C2502
100
C2503
100
SW_2
SW_3
SW_6
CAMP
HP_R
HP_L
TP2353
TP2351
TP2350
TP2349
TP2352
JK2502
K2HC103B0095
HEAD PHONE
C2576
0.1
C2577
0.1
R814
1k
Q808
2SB0709A0L
Q806
2SD0601A0L
R819
0
R825
220
C814
0.1
C815
16V
10
R820
1k
D805
MA2J11100L
D806
MAZ80620LL
IC801
C0DBCMG00001
V_IN
V_OUT
GND
VD_S
SS
TP802
L801
47
C801
0.01
C802
25V
470
R807
47k
R804
1k
C808
2200p
R805
3k
TP806
R801
0
L802
100
D802
B0JAME000045
C806
680
16V
C807
0.01
C810
0.1
A7
TP801
TP803
TP804
TP805

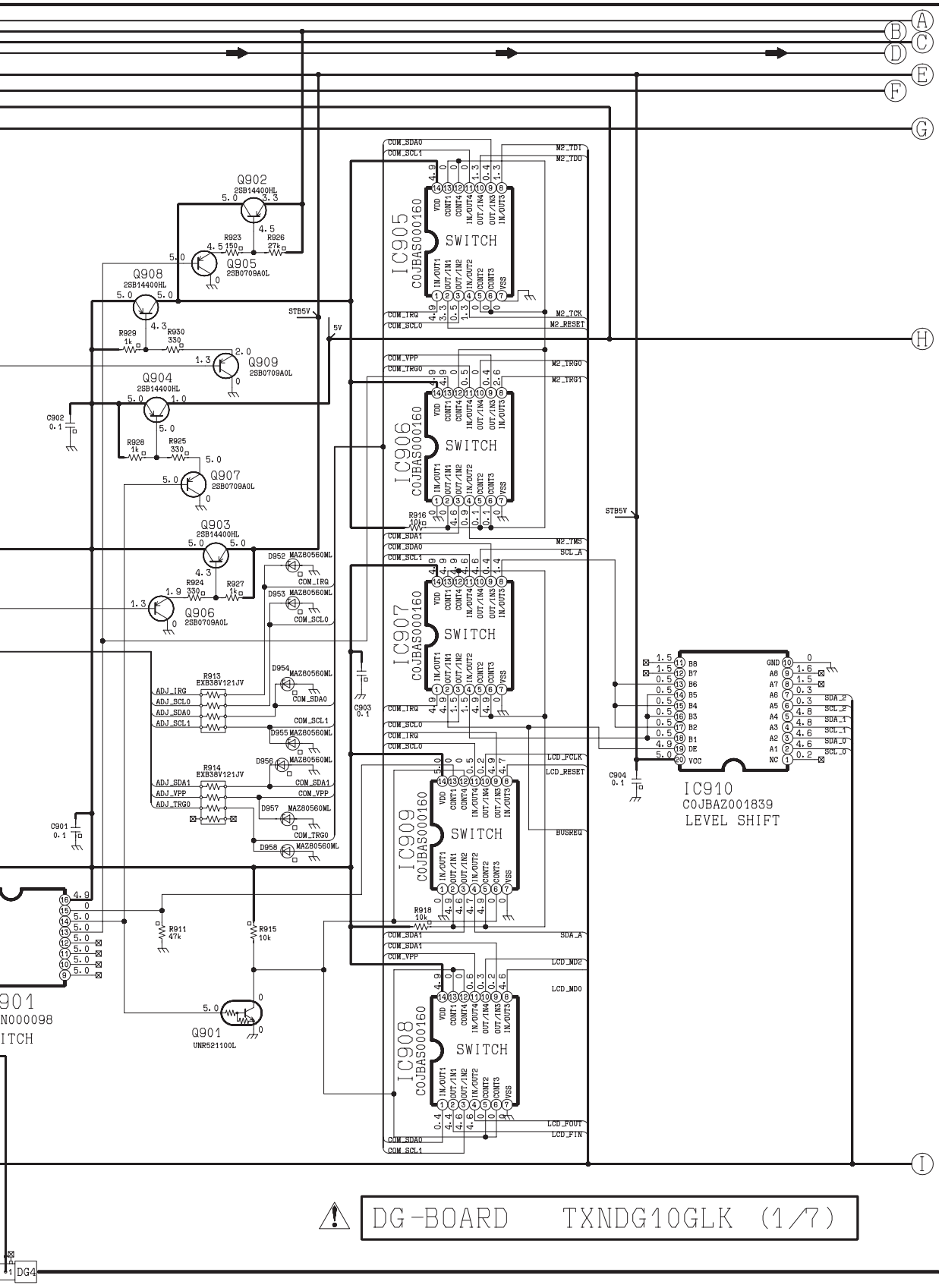
9.11. A-Board (7 of 7) Schematic Diagram



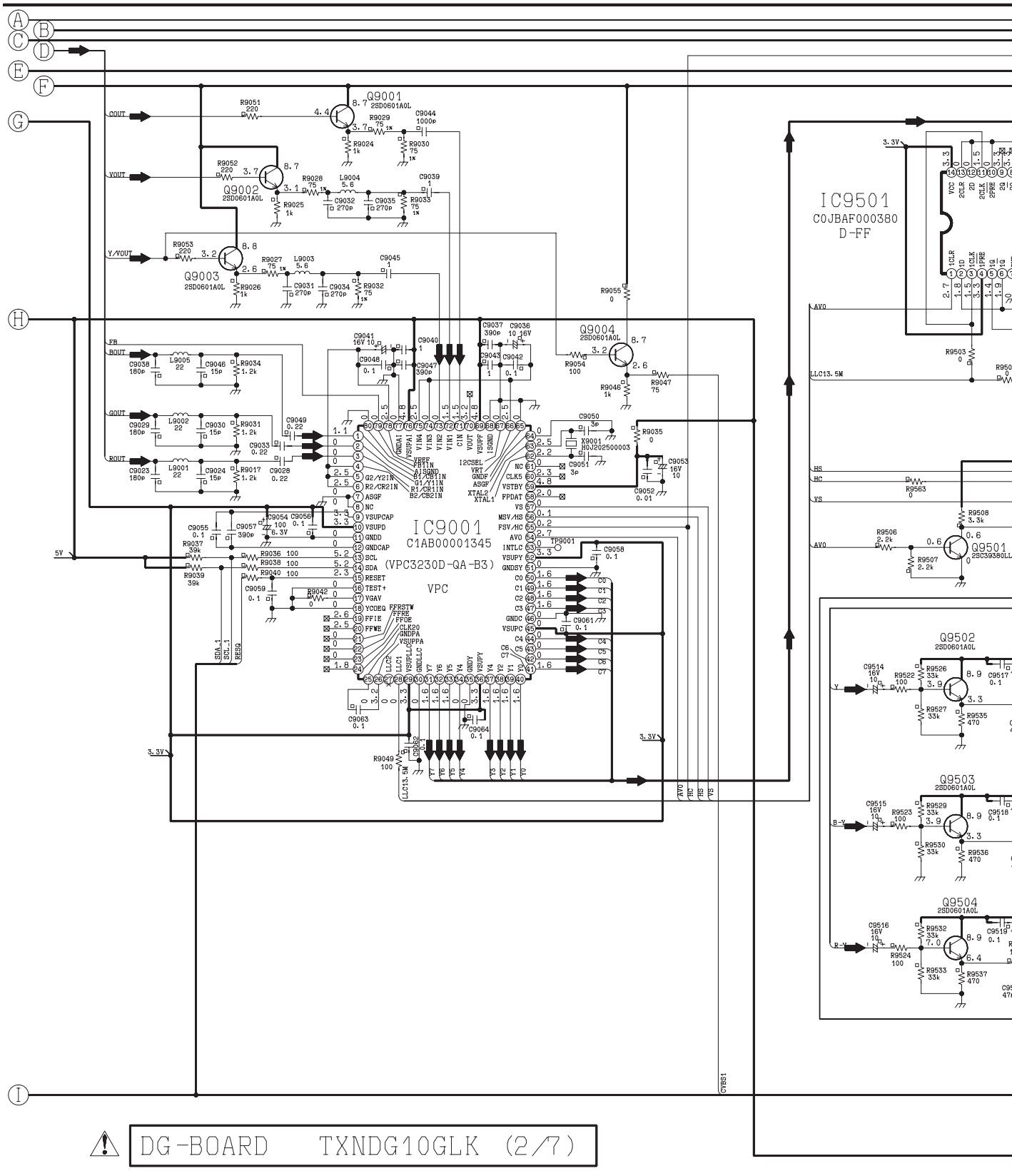

8V
9V
STB2.5V
5V
STB3.3V
R856 10k
TP832
TP831
TP830
R859 0
TP835
C848 1000p
Q820 UNR521100L
Q819 UNR521100L
TP820
3.3
9.0
7.9
C847 1
C851 ZZ 16V 10
8V
IC810 AN77L08M-E1
806 G00004
12.0
C844 16V 22
IC808 C0DBCMG00001
V_IN V_OUT GND VD_S SS
5V
L809 47
TP818
C842 0.01
C843 35V 220
L810 100
R852 1k
R854 3k 1k
TP819
C846 16V 680
C849 0.01
D822 B0JAME000058
D820 MA2J11100L
D821 MAZ80620LL
STB2.5V
PX2.5V
R853 22k
C850 6.3V 22
R857 1k
4.7
Q822 UNR521100L
PIXEL POW
Q825 B1DHDC000016
PIXEL 2.5V
3.3V
STB3.3V
PX3.3V
R850 22k
C845 6.3V 22
R860 22k
C852 6.3V 22
TP822
Q823 B1DHDC000016 3.3V
R851 1k
Q818 UNR521100L
NAIN POW
TP823
Q824 B1DHDC000016 PIXEL 3.3V
R858 1k
4.5
Q821 UNR521100L
PIXEL POW
LIGHTDAI
PWM
OVP
STB5V
STB3.3V
LIGHTON
STB2.5V
3.3V
PX5V
PX3.3V
TP826
PX2.5V
PANEL5V
TP821
TP829
KEY1
KEY2
OVP
PWM
LIGHTDAI
LIGHTON
TRAPON
SNDDEF
RESQ
QLINK
IRDA
LED
AFC1
1 GND
2 9V (M2, VPC, RGBP)
3 STB5V (M2)
4 GND
5 STB3.3V (M2)
6 STB3.3V (M2)
7 GND
8 STB2.5V (M2)
9 STB2.5V (M2)
10 GND
11 5V (VPC, RGBP)
12 3.3V (VPC, DAC)
13 GND
14 PX12V (PLL)
15 PX5V (PIXCEL)
16 PX3.3V (PIXCEL)
17 PX3.3V (PIXCEL)
18 GND
19 PX2.5V (PIXCEL)
20 PX2.5V (PIXCEL)
21 NC
22 GND
23 PANEL5V
24 PANEL5V
25 GND
26 NAINPOW
27 PANELPOW
28 PIXELPOW
29 POWDET
30 GND
31 KEY1
32 KEY2
33 GND
34 OVP
35 GND
36 PWM
37 GND
38 LIGHTDAI
39 GND
40 LIGHTON
41 TRAPON
42 SNDDEF
43 RESQ
44 GND
45 QLINK
46 GND
47 IRDA
48 GND
49 LED
50 AFC1
TOP
A2 DG1
TO DG-BOARD (DG1)

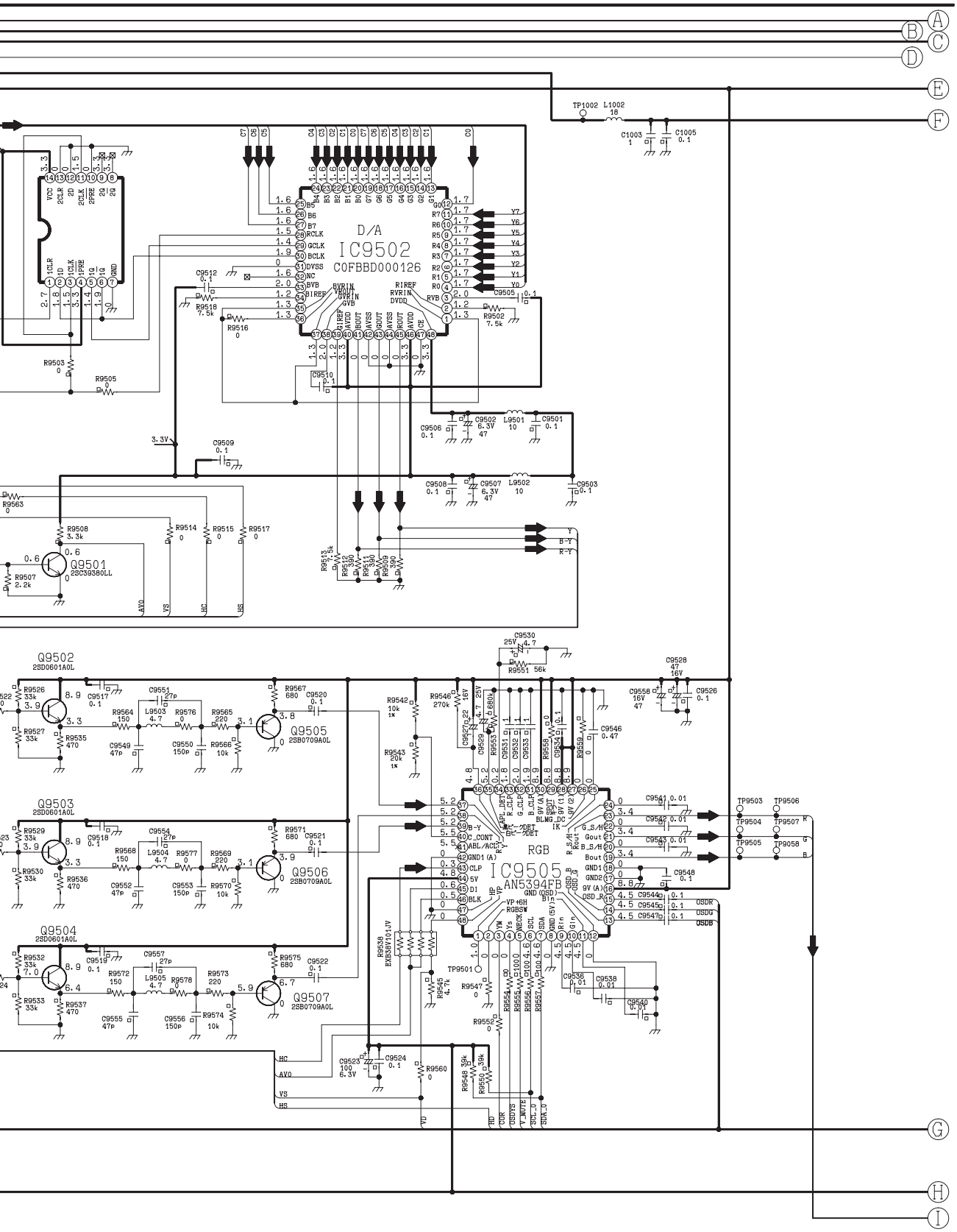
9.12. DG-Board (1 of 7) Schematic Diagram



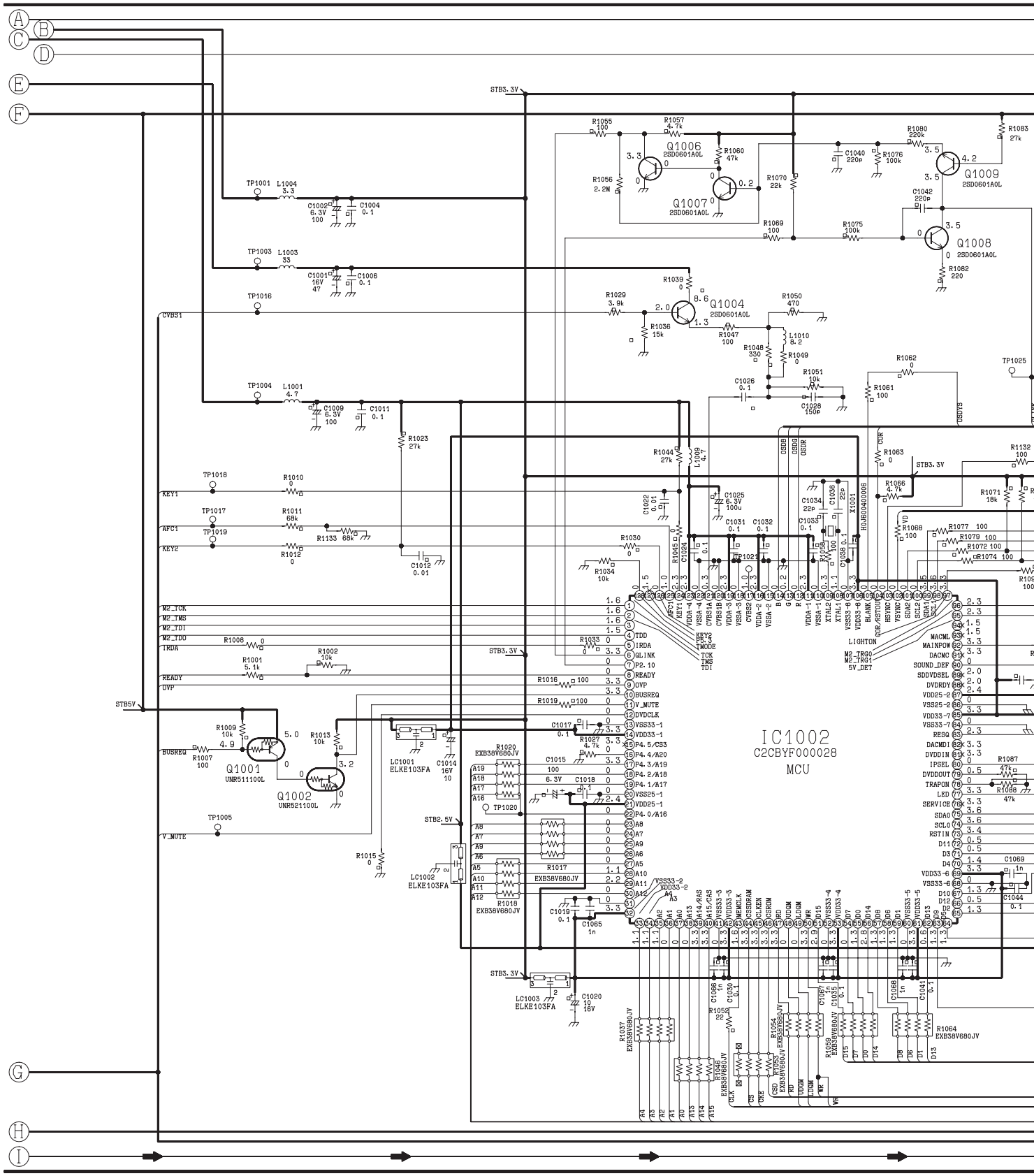

Q902
2SB14400HL
Q905
2SB0709A0L
Q908
2SB14400HL
Q909
2SB0709A0L
Q904
2SB14400HL
Q907
2SB0709A0L
Q903
2SB14400HL
Q906
2SB0709A0L
Q901
UNR521100L
IC905
C0JBAS000160
SWITCH
IC906
C0JBAS000160
SWITCH
IC907
C0JBAS000160
SWITCH
IC909
C0JBAS000160
SWITCH
IC908
C0JBAS000160
SWITCH
IC910
C0JBAZ001839
LEVEL SHIFT
STB5V
5V
COM_SDA0
COM_SCL1
COM_IRQ
COM_SCL0
COM_VPP
COM_TRG0
COM_SDA1
M2_TDI
M2_TDO
M2_TCK
M2_RESET
M2_TRG0
M2_TRG1
M2_TMS
SCL_A
SDA_A
LCD_FCLK
LCD_RESET
BUSREQ
LCD_MD2
LCD_MD0
LCD_FOUT
LCD_FIN
ADJ_IRG
ADJ_SCL0
ADJ_SDA0
ADJ_SCL1
ADJ_SDA1
ADJ_VPP
ADJ_TRG0
D952 MAZ80560ML
D953 MAZ80560ML
D954 MAZ80560ML
D955 MAZ80560ML
D956 MAZ80560ML
D957 MAZ80560ML
D958 MAZ80560ML
R913 EXB38V121JV
R914 EXB38V121JV
R911 47k
R915 10k
R916 10k
R918 10k
R923 150
R924 330
R925 330
R926 27k
R927 1k
R928 1k
R929 1k
R930 330
C901 0.1
C902 0.1
C903 0.1
C904 0.1
DG-BOARD TXNDG10GLK (1/7)
DG4
5
6
7

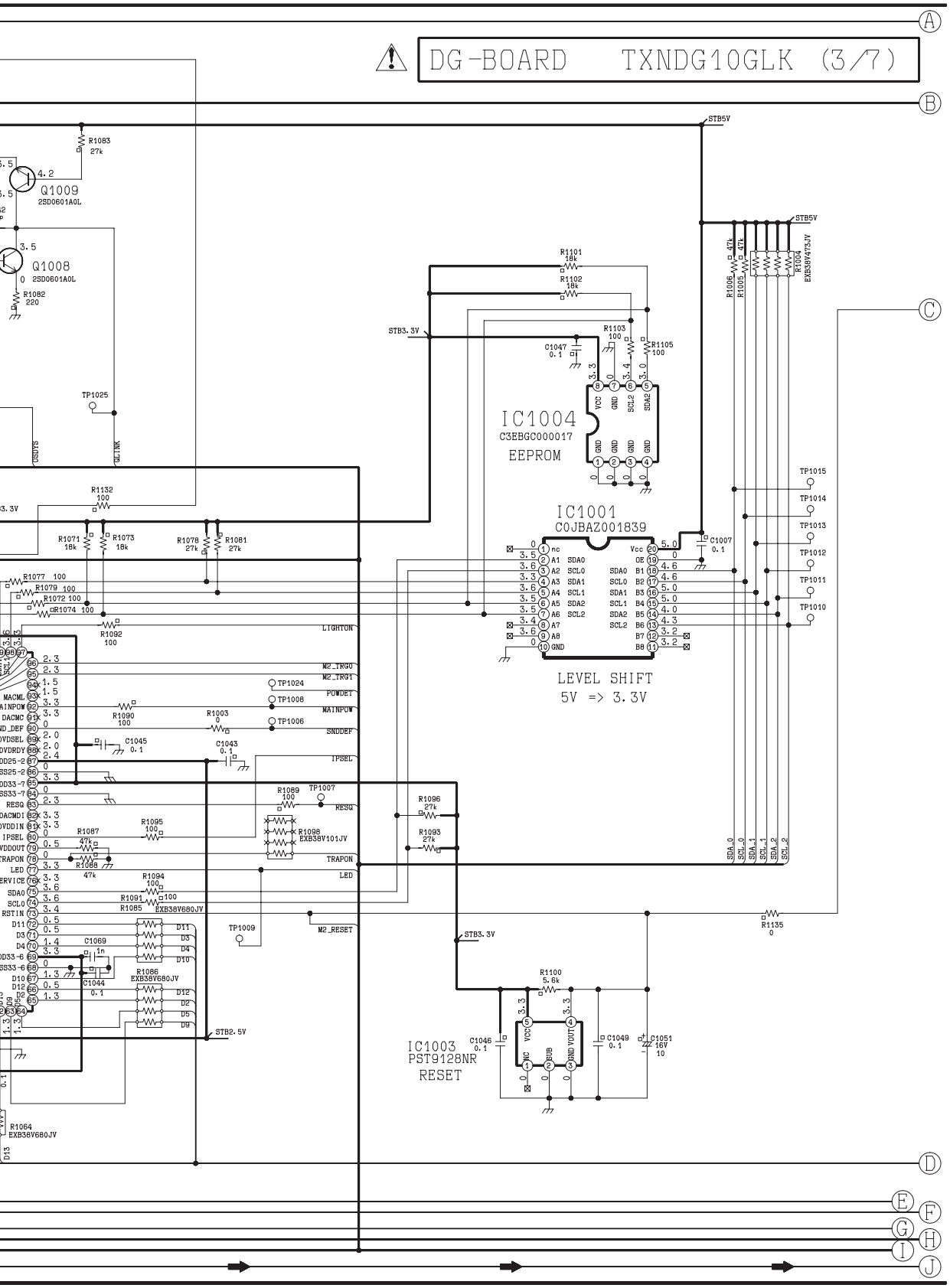
9.13. DG-Board (2 of 7) Schematic Diagram



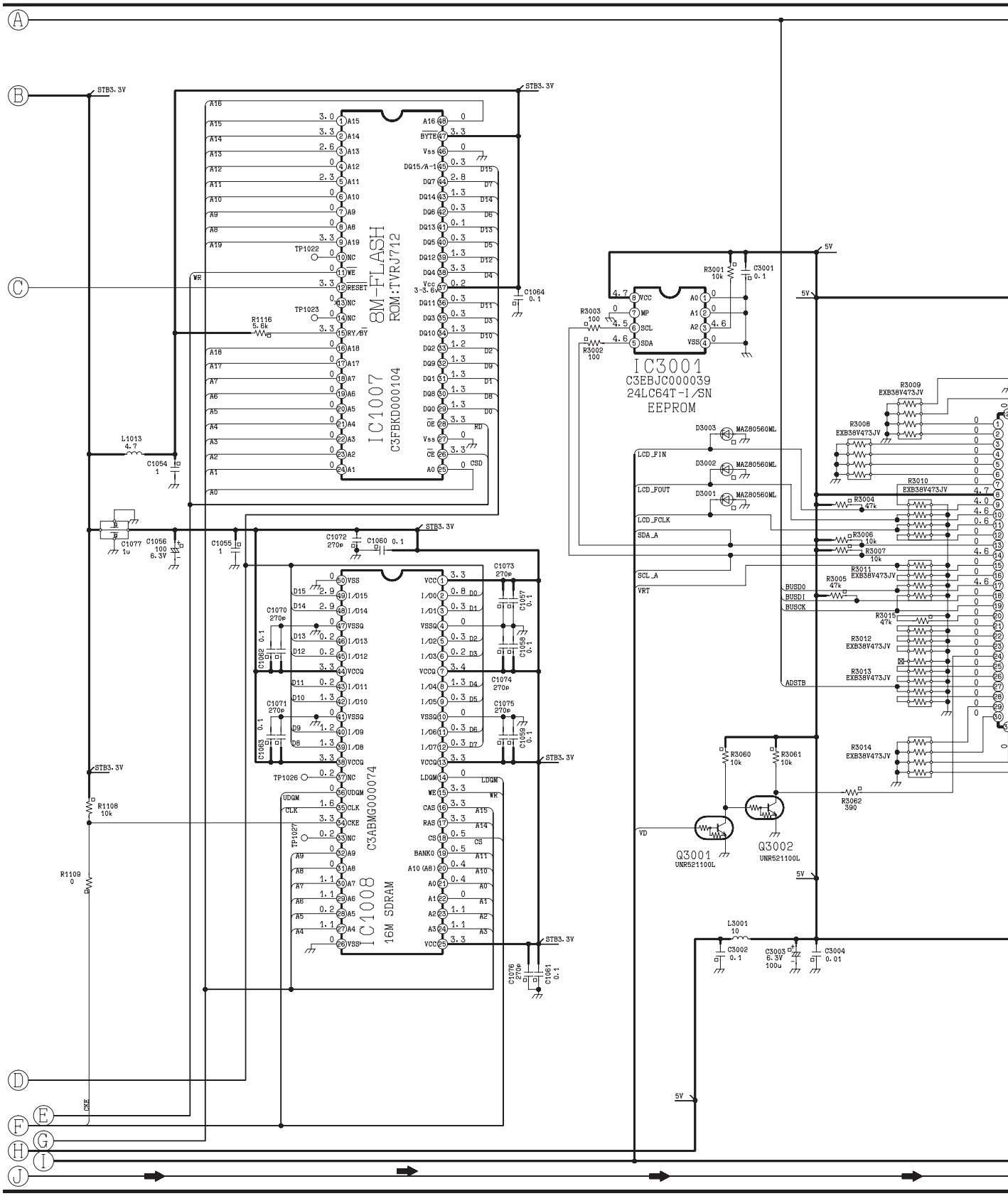

D/A
IC9502
C0FBBD000126
IC9505
AN5394FB
RGB
Q9501
2SC3938OLL
Q9502
2SD0601A0L
Q9503
2SD0601A0L
Q9504
2SD0601A0L
Q9505
2SB0709A0L
Q9506
2SB0709A0L
Q9507
2SB0709A0L
TP1002
L1002
C1003
C1005
C9502
L9501
C9501
C9506
C9507
L9502
C9503
C9508
C9509
C9510
C9512
C9505
C9530
C9528
C9526
C9558
C9546
C9541
C9542
C9543
C9544
C9545
C9547
C9548
C9536
C9538
C9540
C9523
C9524
C9517
C9518
C9519
C9520
C9521
C9522
R9503
R9505
R9516
R9518
R9502
R9563
R9508
R9514
R9515
R9517
R9507
R9513
R9542
R9543
R9546
R9551
R9547
R9552
R9560
R9548
R9549
R9550
TP9501
TP9503
TP9504
TP9505
TP9506
TP9507
TP9508
3.3V
AVO
VS
HC
HS
HD
VD
Y
B-Y
R-Y
R
G
B

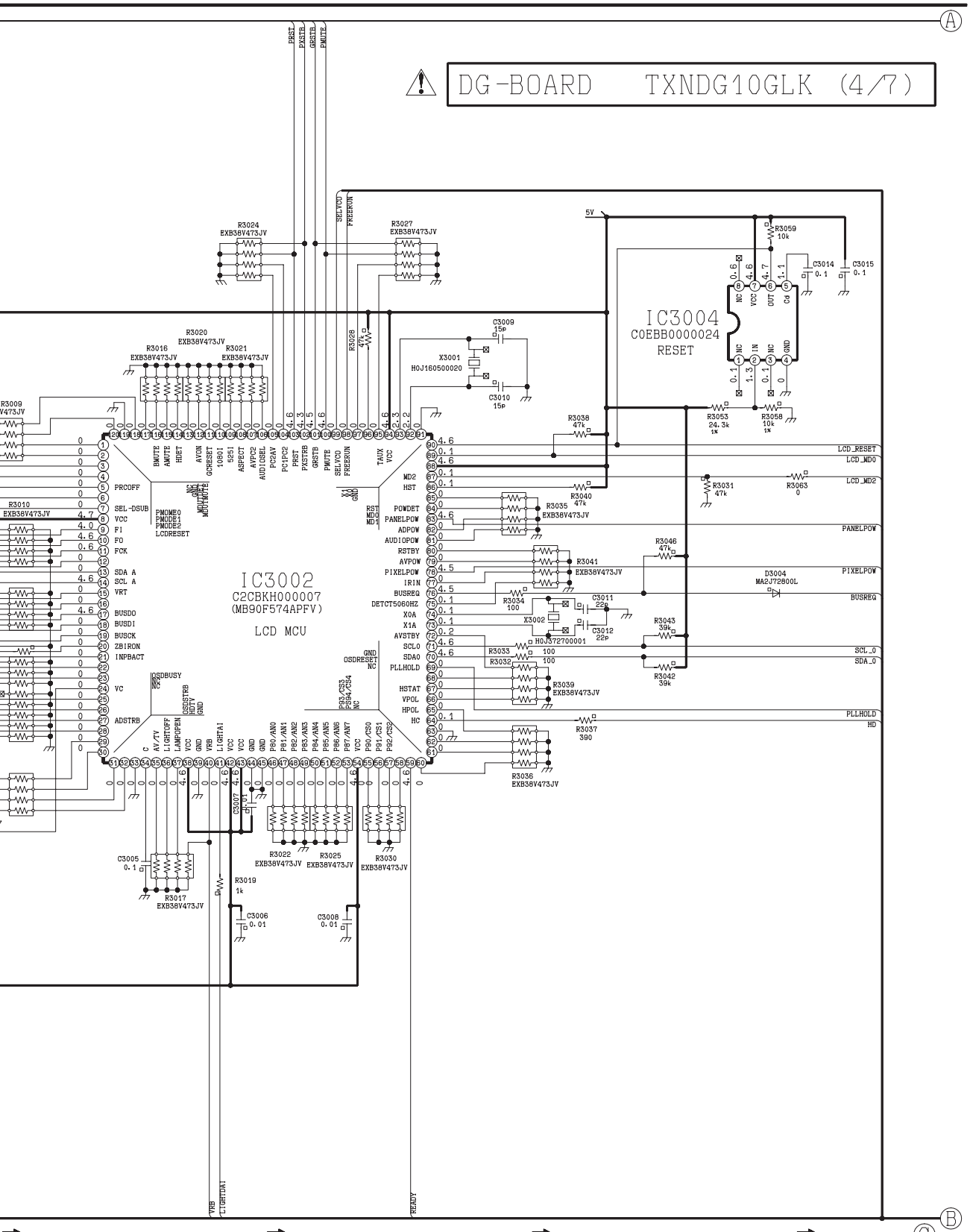
9.14. DG-Board (3 of 7) Schematic Diagram



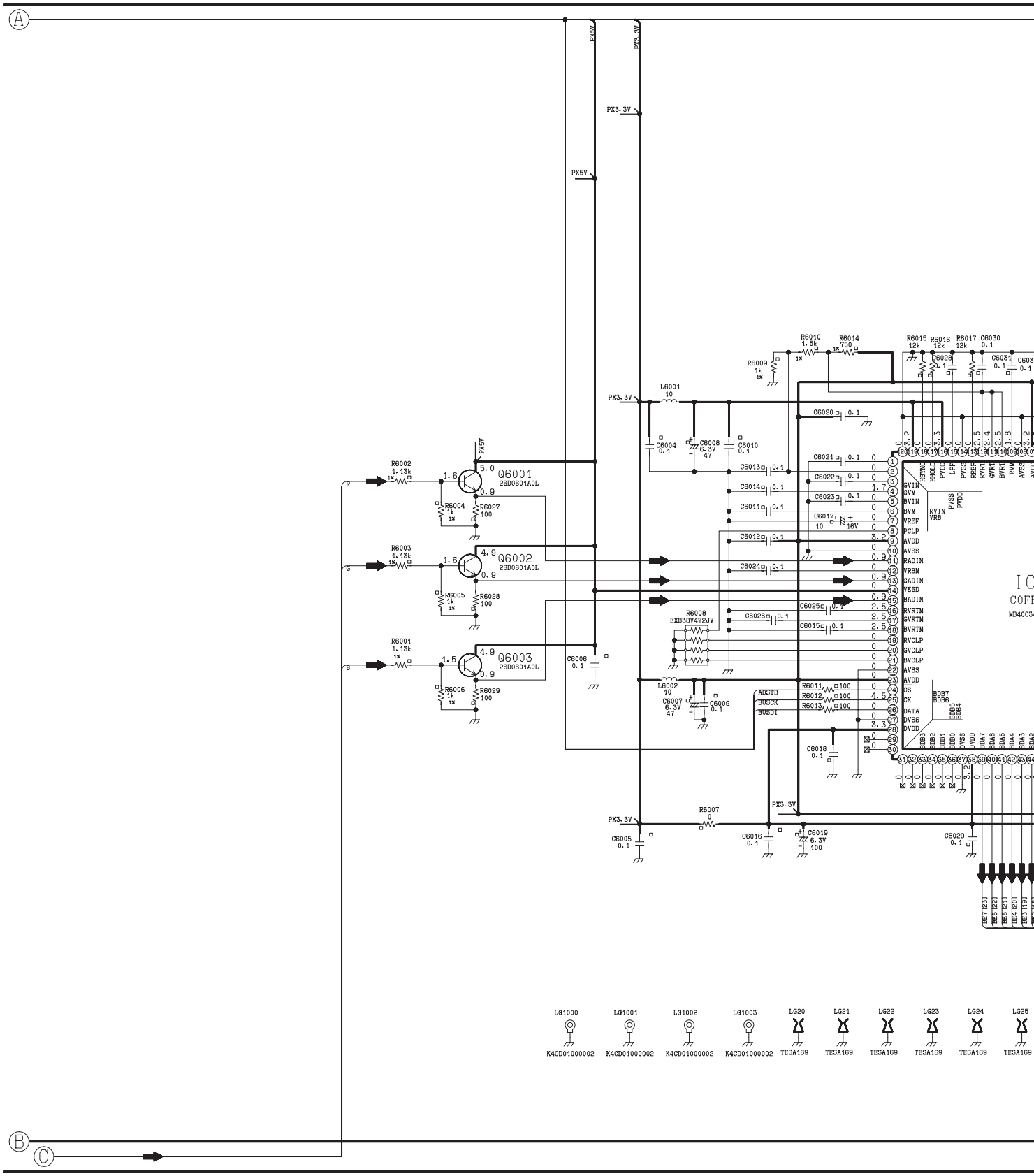

DG-BOARD TXNDG10GLK (3/7)
IC1004
C3EBGC000017
EEPROM
IC1001
C0JBAZ001839
LEVEL SHIFT
5V => 3.3V
IC1003
PST9128NR
RESET
STB5V
STB3.3V
STB2.5V
LIGHTON
M2_TRGO
M2_TRG1
POWDET
MAINPOW
SNDDET
IPSEL
RESQ
TRAPON
LED
M2_RESET
SDA_0
SCL_0
SDA_1
SCL_1
SDA_2
SCL_2
TP1025
TP1024
TP1008
TP1006
TP1007
TP1009
TP1015
TP1014
TP1013
TP1012
TP1011
TP1010
Q1009
2SD0601A0L
Q1008
2SD0601A0L
R1083
27k
R1082
220
R1101
18k
R1102
18k
R1103
100
R1105
100
C1047
0.1
R1004
EXB38V473JV
R1006
47k
R1005
47k
R1132
100
R1071
18k
R1073
18k
R1078
27k
R1081
27k
R1077
100
R1079
100
R1072
100
R1074
100
R1092
100
R1090
100
R1003
0
C1045
0.1
C1043
0.1
R1089
100
R1096
27k
R1093
27k
R1098
EXB38V101JV
R1095
100
R1087
47k
R1088
47k
R1094
100
R1091
100
R1085
EXB38V680JV
C1069
1n
C1044
0.1
R1086
EXB38V680JV
R1064
EXB38V680JV
C1007
0.1
R1135
0
R1100
5.6k
C1046
0.1
C1049
0.1
C1051
16V
10

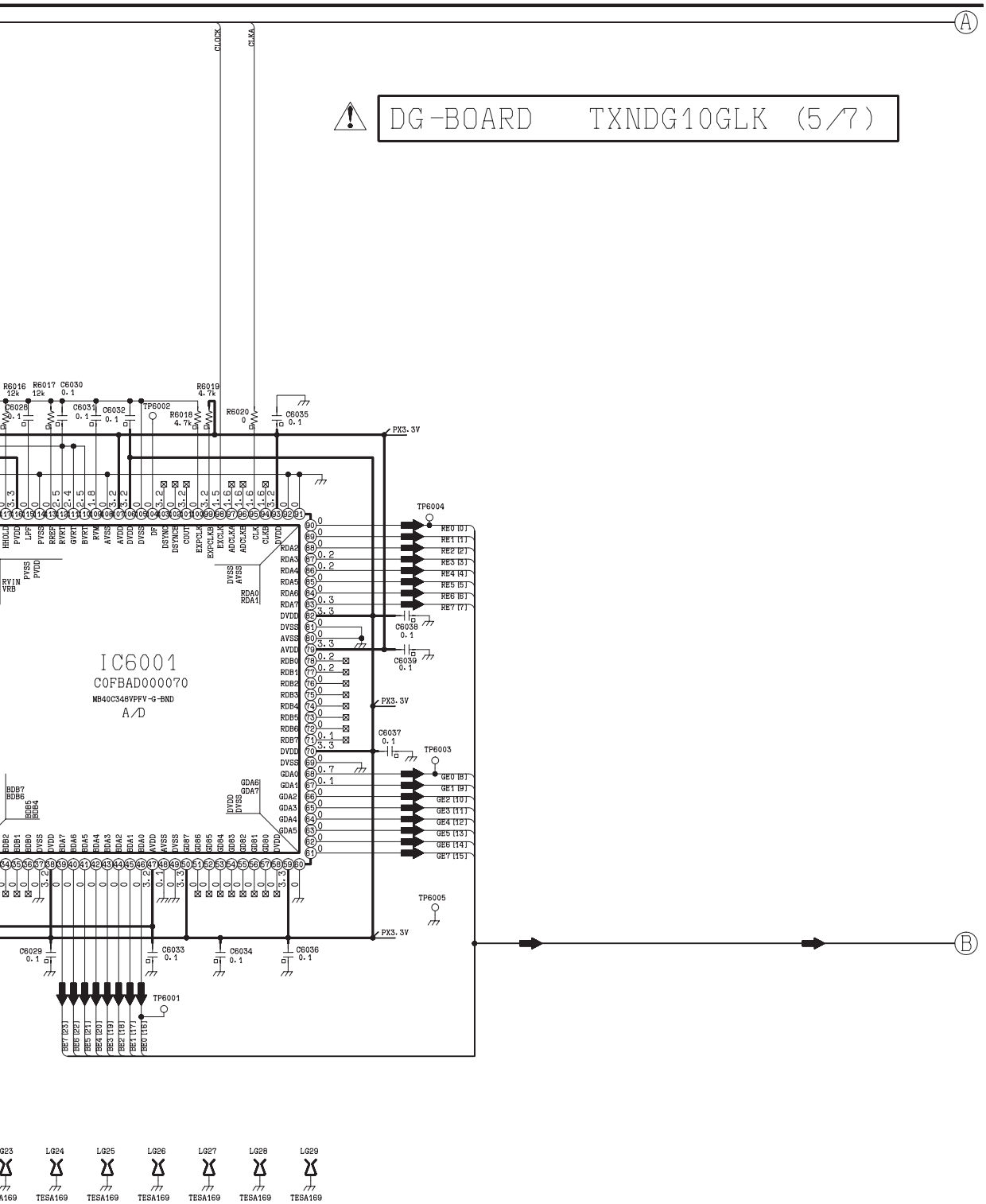
9.15. DG-Board (4 of 7) Schematic Diagram



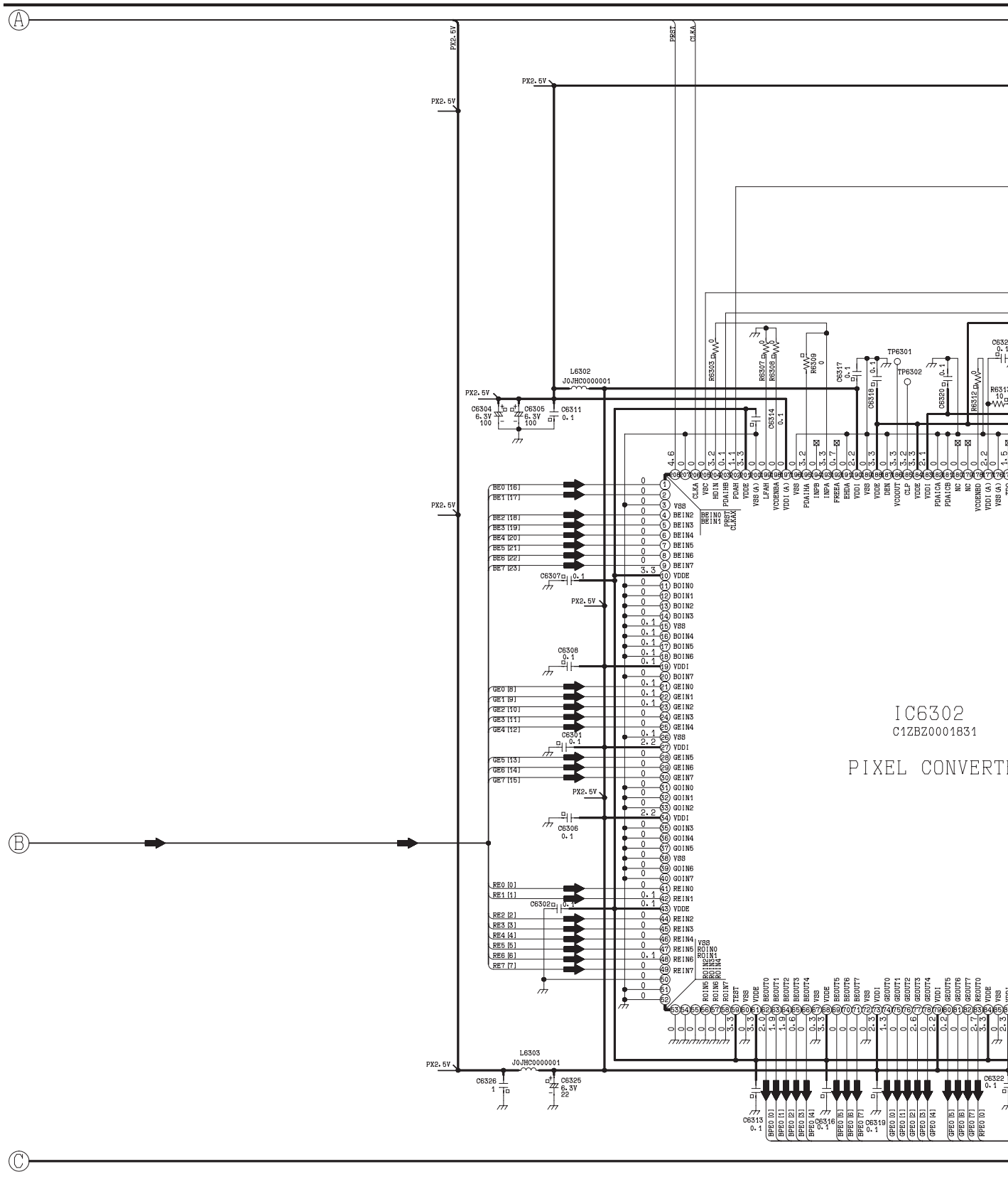

DG-BOARD TXNDG10GLK (4/7)
IC3002
C2CBKH000007
(MB90F574APFV)
LCD MCU
IC3004
C0EBB0000024
RESET
LCD_RESET
LCD_MD0
LCD_MD2
PANELPOW
PIXELPOW
BUSREQ
SCL_0
SDA_0
PLLHOLD
HD
VRB
LIGHTIA1
READY

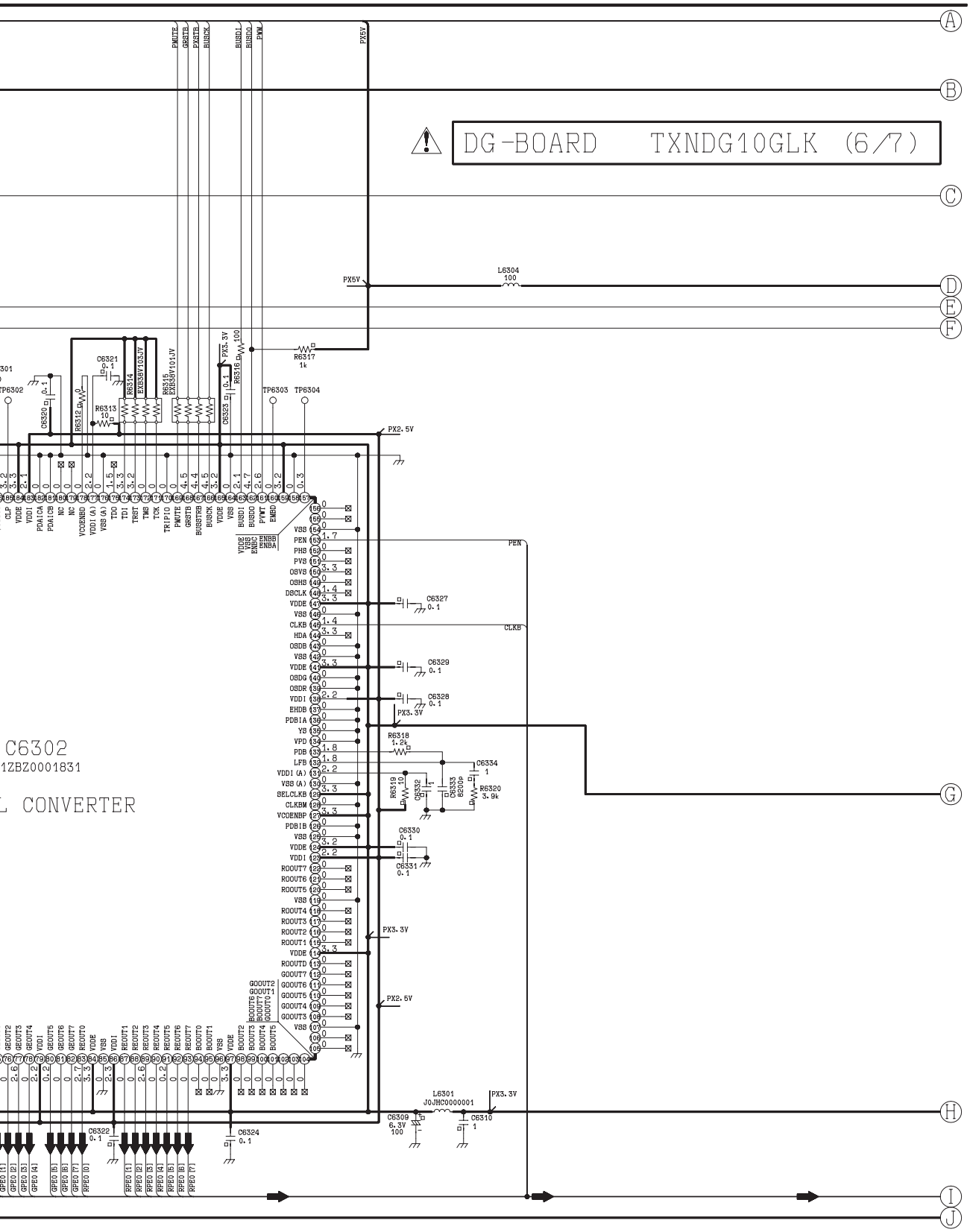
9.16. DG-Board (5 of 7) Schematic Diagram



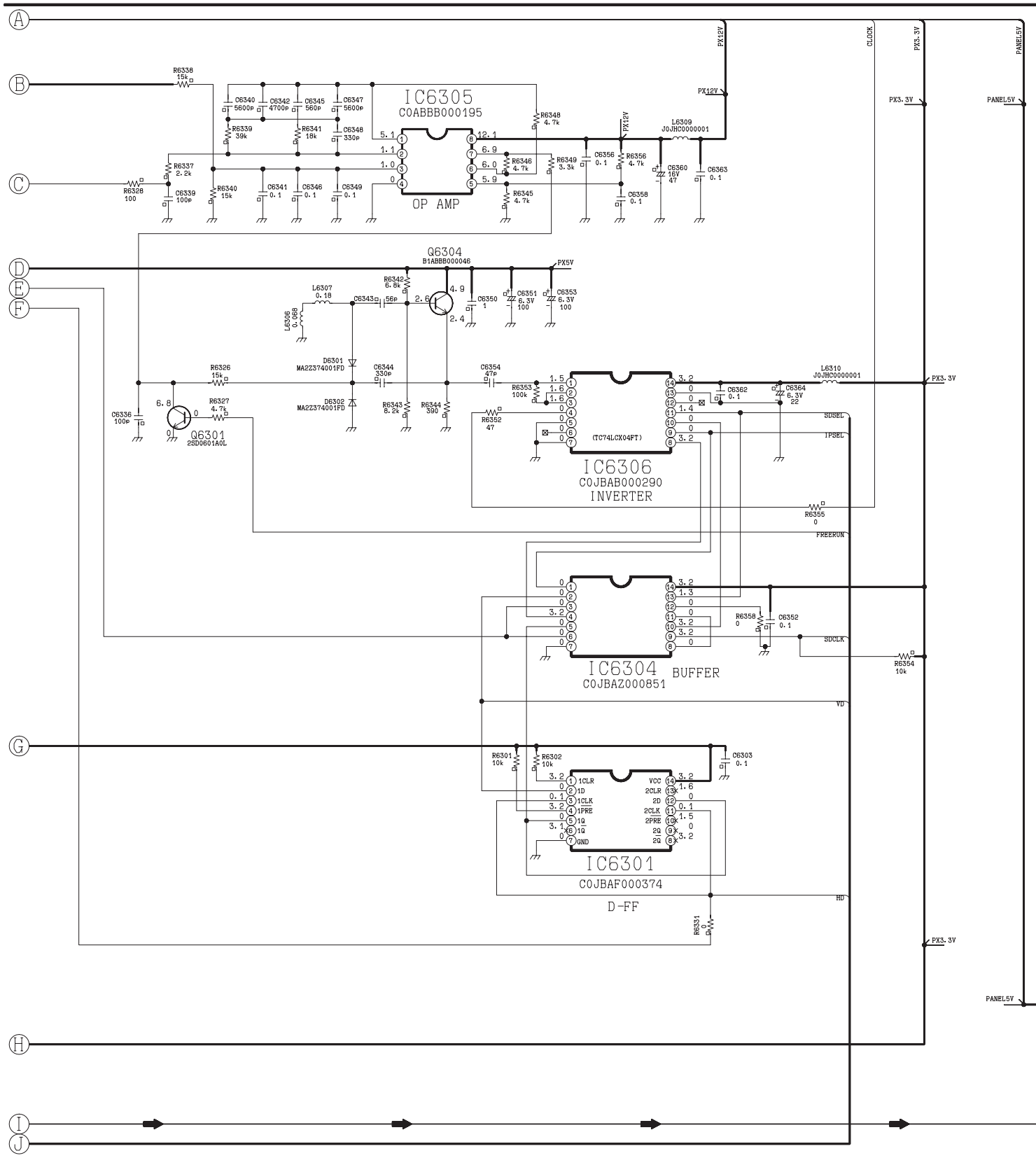

DG-BOARD TXNDG10GLK (5/7)
IC6001
C0FBAD000070
MB40C348VPFV-G-BND
A/D
CLOCK
CLKA
PX3.3V
TP6004
TP6003
TP6005
TP6001
TP6002
C6028
C6029
C6030
C6031
C6032
C6033
C6034
C6035
C6036
C6037
C6038
C6039
R6016
R6017
R6018
R6019
R6020
LG23
LG24
LG25
LG26
LG27
LG28
LG29
TESA169

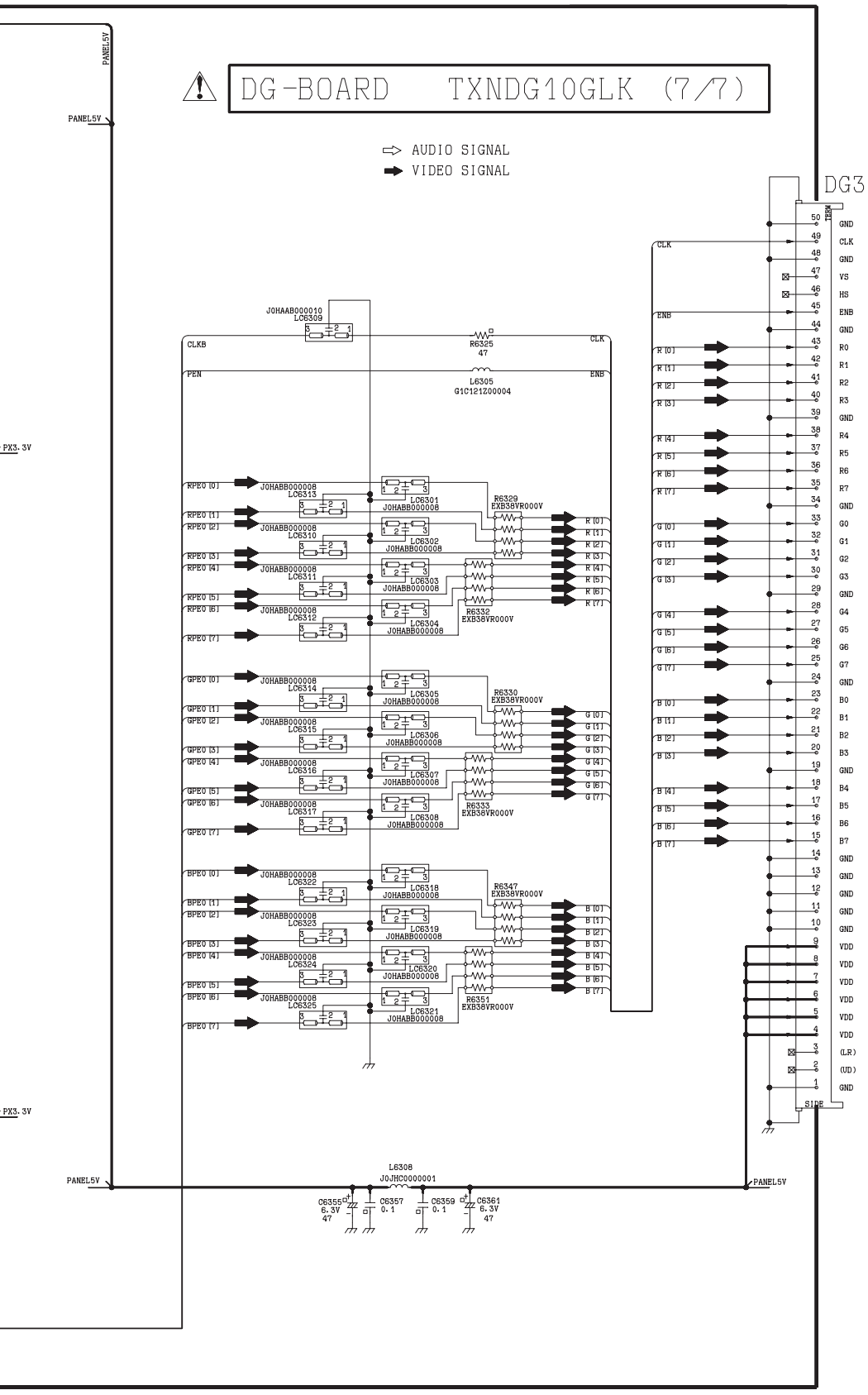
9.17. DG-Board (6 of 7) Schematic Diagram



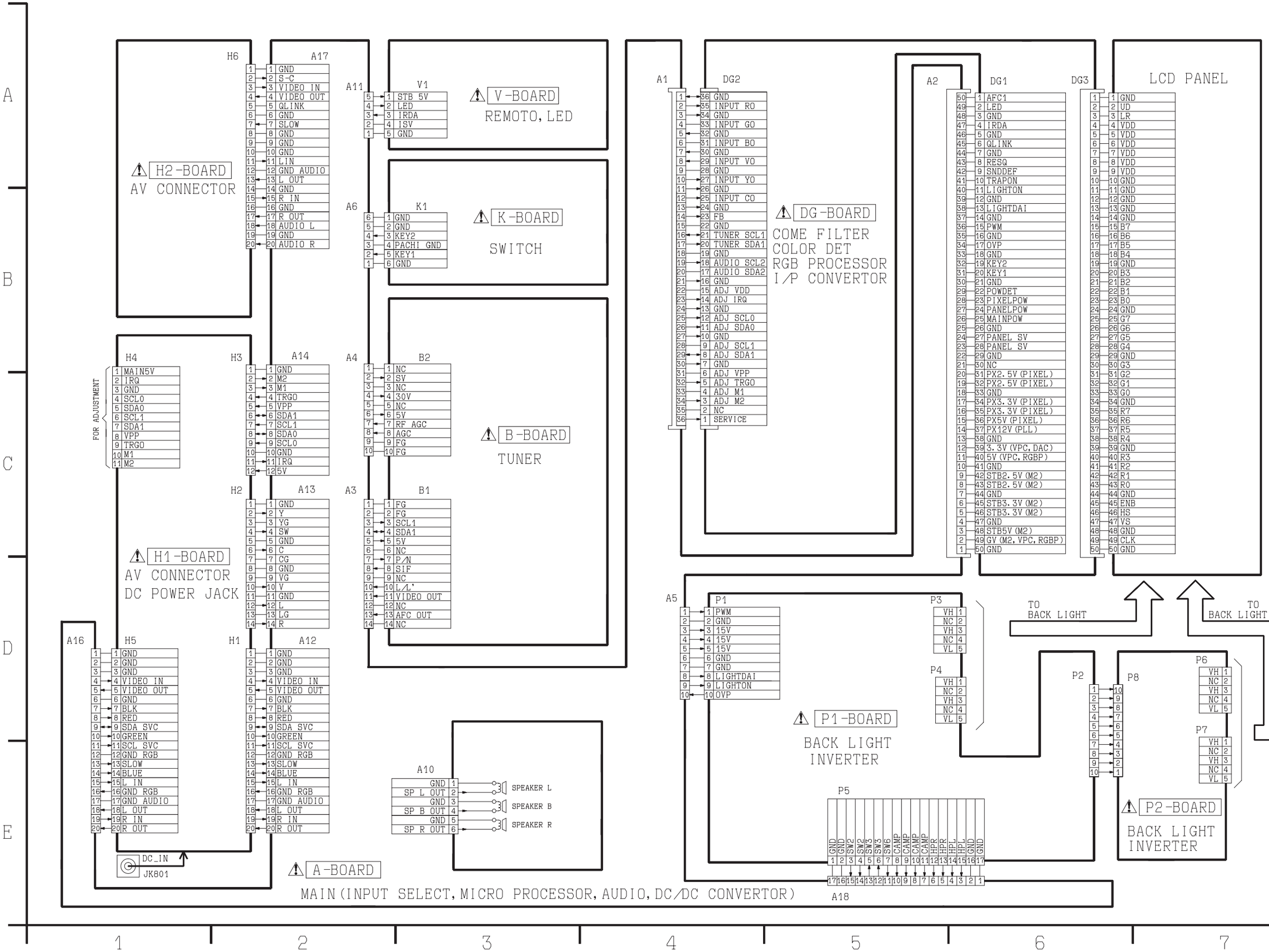

DG-BOARD TXNDG10GLK (6/7)
C6302
1ZBZ0001831
L CONVERTER
PX5V
PX3.3V
PX2.5V
PEN
CLKB
L6304
100
L6301
JOJHC0000001
R6317
1k
R6318
1.2k
R6319
10
R6320
3.9k
C6327
0.1
C6328
0.1
C6329
0.1
C6330
0.1
C6331
0.1
C6332
1
C6333
8200p
C6334
1
C6309
6.3V
100
C6310
1
C6321
0.1
C6322
0.1
C6324
0.1
C6325
0.1
C6326
0.1
TP6302
TP6303
TP6304
A
B
C
D
E
F
G
H
I
J

9.18. DG-Board (7 of 7) Schematic Diagram




DG-BOARD TXNDG10GLK (7/7)
AUDIO SIGNAL
VIDEO SIGNAL
DG3
PANEL5V
CLKB
PENB
CLK
ENB
R6325
47
L6305
G1C121Z00004
JOHAAB000010
LC6309
R6329
EXB38VR000V
R6332
EXB38VR000V
R6330
EXB38VR000V
R6333
EXB38VR000V
R6347
EXB38VR000V
R6351
EXB38VR000V
L6308
J0JHC0000001
C6355
6.3V
47
C6357
0.1
C6359
0.1
C6361
6.3V
47
GND
VS
HS
ENB
R0
R1
R2
R3
R4
R5
R6
R7
G0
G1
G2
G3
G4
G5
G6
G7
B0
B1
B2
B3
B4
B5
B6
B7
VDD
(LR)
(UD)
SIDE

33 34 35


H6
A17
1 GND
2 S-C
3 VIDEO IN
4 VIDEO OUT
5 QLINK
6 GND
7 SLOW
8 GND
9 GND
10 GND
11 LIN
12 GND AUDIO
13 L OUT
14 GND
15 R IN
16 GND
17 R OUT
18 AUDIO L
19 GND
20 AUDIO R
H2-BOARD
AV CONNECTOR
A11
V1
5 STB 5V
4 LED
3 IRDA
2 ISV
1 GND
V-BOARD
REMOTO, LED
A6
K1
6 GND
5 GND
4 KEY2
3 PACHI GND
2 KEY1
1 GND
K-BOARD
SWITCH
A1
DG2
1 GND
2 INPUT RO
3 GND
4 INPUT GO
5 GND
6 INPUT BO
7 GND
8 INPUT VO
9 GND
10 INPUT YO
11 GND
12 INPUT CO
13 GND
14 FB
15 GND
16 TUNER SCL1
17 TUNER SDA1
18 GND
19 AUDIO SCL2
20 AUDIO SDA2
21 GND
22 ADJ VDD
23 ADJ IRQ
24 GND
25 ADJ SCL0
26 ADJ SDA0
27 GND
28 ADJ SCL1
29 ADJ SDA1
30 GND
31 ADJ VPP
32 ADJ TRGO
33 ADJ M1
34 ADJ M2
35 NC
36 SERVICE
DG-BOARD
COME FILTER
COLOR DET
RGB PROCESSOR
I/P CONVERTOR
A2
DG1
50 AFC1
49 LED
48 GND
47 IRDA
46 GND
45 QLINK
44 GND
43 RESQ
42 SNDDEF
41 TRAPON
40 LIGHTON
39 GND
38 LIGHTDAI
37 GND
36 PWM
35 GND
34 OVP
33 GND
32 KEY2
31 KEY1
30 GND
29 POWDET
28 PIXELPOW
27 PANELPOW
26 MAINPOW
25 GND
24 PANEL SV
23 PANEL SV
22 GND
21 NC
20 PX2.5V (PIXEL)
19 PX2.5V (PIXEL)
18 GND
17 PX3.3V (PIXEL)
16 PX3.3V (PIXEL)
15 PX5V (PIXEL)
14 PX12V (PLL)
13 GND
12 3.3V (VPC, DAC)
11 5V (VPC, RGBP)
10 GND
9 STB2.5V (M2)
8 STB2.5V (M2)
7 GND
6 STB3.3V (M2)
5 STB3.3V (M2)
4 GND
3 STB5V (M2)
2 GV (M2, VPC, RGBP)
1 GND
DG3
LCD PANEL
1 GND
2 UD
3 LR
4 VDD
5 VDD
6 VDD
7 VDD
8 VDD
9 VDD
10 GND
11 GND
12 GND
13 GND
14 GND
15 B7
16 B6
17 B5
18 B4
19 GND
20 B3
21 B2
22 B1
23 B0
24 GND
25 G7
26 G6
27 G5
28 G4
29 GND
30 G3
31 G2
32 G1
33 G0
34 GND
35 R7
36 R6
37 R5
38 R4
39 GND
40 R3
41 R2
42 R1
43 R0
44 GND
45 ENB
46 HS
47 VS
48 GND
49 CLK
50 GND
H4
FOR ADJUSTMENT
1 MAIN5V
2 IRQ
3 GND
4 SCL0
5 SDA0
6 SCL1
7 SDA1
8 VPP
9 TRGO
10 M1
11 M2
H3
A14
1 GND
2 M2
3 M1
4 TRGO
5 VPP
6 SDA1
7 SCL1
8 SDA0
9 SCL0
10 GND
11 IRQ
12 5V
A4
B2
1 NC
2 SV
3 NC
4 30V
5 NC
6 5V
7 RF AGC
8 AGC
9 FG
10 FG
B-BOARD
TUNER
H2
A13
1 GND
2 Y
3 YG
4 SW
5 GND
6 C
7 CG
8 GND
9 VG
10 V
11 GND
12 L
13 LG
14 R
A3
B1
1 FG
2 FG
3 SCL1
4 SDA1
5 5V
6 NC
7 P/N
8 SIF
9 NC
10 L/L'
11 VIDEO OUT
12 NC
13 AFC OUT
14 NC
H1-BOARD
AV CONNECTOR
DC POWER JACK
A16
H5
1 GND
2 GND
3 GND
4 VIDEO IN
5 VIDEO OUT
6 GND
7 BLK
8 RED
9 SDA SVC
10 GREEN
11 SCL SVC
12 GND RGB
13 SLOW
14 BLUE
15 L IN
16 GND RGB
17 GND AUDIO
18 L OUT
19 R IN
20 R OUT
H1
A12
1 GND
2 GND
3 GND
4 VIDEO IN
5 VIDEO OUT
6 GND
7 BLK
8 RED
9 SDA SVC
10 GREEN
11 SCL SVC
12 GND RGB
13 SLOW
14 BLUE
15 L IN
16 GND RGB
17 GND AUDIO
18 L OUT
19 R IN
20 R OUT
DC_IN
JK801
A10
GND 1
SP L OUT 2
GND 3
SP B OUT 4
GND 5
SP R OUT 6
SPEAKER L
SPEAKER B
SPEAKER R
A-BOARD
A5
P1
1 PWM
2 GND
3 15V
4 15V
5 15V
6 GND
7 GND
8 LIGHTDAI
9 LIGHTON
10 OVP
P3
VH 1
NC 2
VH 3
NC 4
VL 5
P4
VH 1
NC 2
VH 3
NC 4
VL 5
P1-BOARD
BACK LIGHT
INVERTER
TO
BACK LIGHT
TO
BACK LIGHT
P2
P8
1 10
2 9
3 8
4 7
5 6
6 5
7 4
8 3
9 2
10 1
P6
VH 1
NC 2
VH 3
NC 4
VL 5
P7
VH 1
NC 2
VH 3
NC 4
VL 5
P2-BOARD
BACK LIGHT
INVERTER
P5
GND 1
GND 2
SW2 3
SW5 4
SW3 5
SW6 6
CAMP 7
CAMP 8
CAMP 9
HPR 10
HPR 11
HPL 12
HPL 13
GND 14
GND 15
17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1
A18
MAIN(INPUT SELECT, MICRO PROCESSOR, AUDIO, DC/DC CONVERTOR)
A
B
C
D
E
1
2
3
4
5
6
7

H1-BOARD TNPA2397AB

JK801 ⚠
K2EE2A000001
DC IN
(FROM AC ADAPTOR)

TP844

TP845

H1

AUDIO SIGNAL
VIDEO SIGNAL

(AV1)
SCART
K1FB121A0003
JK4002

GND
VIDEO IN
VIDEO OUT
GND_VIDEO_I
GND_VIDEO_O
BLK
RED
GND
GND_RED
SDA_SVC
GREEN
SCL_SVC
GND_GERRN
SLOW
BLUE
L_IN
GND_BLUE
GND_AUDIO
L_OUT
R_IN
R_OUT

TP4085

TP4084
TP4083
TP4082
TP4081
TP4080
TP4079
TP4078
TP4077
TP4076
TP2356
TP4075
TP2355
TP2354
TP2353

C2584 560p
C2583 560p
C2582 560p
C2581 560p

H5

GND
GND
GND
VIDEO_IN
VIDEO_OUT
GND
BLK
RED
SDA_SVC
GREEN
SCL_SVC
GND_RGB
SLOW
BLUE
L_IN
GND_RGB
GND_AUDIO
L_OUT
R_IN
R_OUT

JK4001
K1U413A00002

R
L
V
C
Y

H2

GND
Y
Y_G
SW
GND
C
C_G
GND
V_G
V
GND
L
L-G
R

H4

MAIN_5V
IRQ
GND
SCL0
SDA0
SCL1
SDA1
VPP
TRGO
M1
M2

TP962
TP963
TP964
TP965
TP966
TP967
TP968
TP969
TP970
TP971
TP972

LG32 TESA169
LG33 TESA169
LG36 TESA169

H3

A-BOARD TNPH0473AB (1/7)

AUDIO SIGNAL
VIDEO SIGNAL

A12

GND
GND
GND
GND
15V
15V
15V
15V
15V
15V
15V
GND
GND
GND

DC 15V
8V

Q4001
2SD0601A0L
7.9
0.4
2.3

R4015 3k
C4013 16V 22
Y/VOUT2
R4016 1.8k

A16

GND
GND
GND
VIDEO_IN
VIDEO_OUT
GND
BLK
RED
SDA_SVC
GREEN
SCL_SVC
GND_RGB
SLOW
BLUE
L_IN
GND_RGB
GND_AUDIO
L_OUT
R_IN
R_OUT

TP4032
TP4030
TP4031
R4001 75 1%
L4001 J0JBC0000004
R4006 75
R4013 1k
AV1_VIDEO
R4027 75 1%
R4034 0
TP4033
TP4034
TP4035
TP4036
TP4039
R4026 120
R4025 120
R4033 120
SDA_SVC
SCL_SVC
FB
RO
GO
BO
TP4037
TP4038
TP4040
R4002 6.8k
R4008 4.7k
AV1_SLOW
AV1_LIN
TP4041
C4001 270p
L4002 J0JBC0000004
C4005 270p
R4010 33k
R4018 75 1%
R4019 75 1%
R4020 75 1%
C4007 10
TV_L
TP4042
TP4043
TP4044
C4002 560p
C4003 270p
C4004 560p
L4004 J0JBC0000004
L4003 J0JBC0000004
L4005 J0JBC0000004
C4006 270p
R4012 33k
C4008 10
AV1_RIN
TV_R

9V

TP4047
D4008 MAZ81400ML
C4012 1
C4015 1
R4017 6.8k
R4024 75 1%
C

A13

TP4048
TP4049
D4003 MAZ81400ML
R4009 10k
D4006 MAZ81400ML
C4011 0.01
C4014 0.01
S2
S
Y
TP4050
R4011 75 1%

JS011 0

TP4051
D4004 MAZ81400ML
R4014 75 1%
VIDEO
TP4053
R4007 180k
C4010 1
L
TP4052
R4003 180k
C4009 1
R

GND
Y
Y_G
SW
GND
C
C_G
GND
V_G
V
GND
L
L-G
R

A14

TP951
TP952
TP953
TP954
TP955
TP956
TP957
TP958
TP959
TP960

5V
IRQ
GND
SCL0
SDA0
SCL_1
SDA_1
VPP
TRGO
M1
M2
GND

SCL0
SDA1
SCL1
SDA1
VPP
TRGO
M1
M2

LG1 TESA169
LG2 TESA169
LG3 TESA169
LG4 TESA169
LG5 TESA169
LG6 TESA169
LG7 TESA169

LG801 TJC85341
LG804 TJC85341
LG805 TJC85341
LG806 TJC85341
LG807 TJC85341
LG808 TJC85341
LG809 TJC85341
LG810 TJC85341
LG811 TJC85341
LG812 TJC85341
LG813 TJC85341

A
B
C
D
E
F
G
H
I
J

1 2 3 4 5 6 7

A-BOARD TNPH0473AB (2/7)

AUDIO SIGNAL
VIDEO SIGNAL

H2-BOARD TNPA2398AB

JK4003
K1FB121A0006
(AV2)
SCART

JK2501
K2HC103A0002
AUDIO OUT

IC4002
C1AB0000045
AV SWITCH

Q4200 2SD0601A0L
Q4005 2SD0601A0L
Q4004 2SB0709A0L
Q4006 2SD0601A0L
Q4002 2SD0601A0L
Q4003 2SD0601A0L

DC 15V
8V
9V
5V

TO
DG-BOARD
(DG2)

A-BOARD TNPH0473AB (3/7)

⇨ AUDIO SIGNAL
➡ VIDEO SIGNAL

HEADPHONE AMP

AUDIO AMP
IC2301
C1BA00000218

IC2502
AN17880A-E1

IC2503
C1AB00001584
MSP
(MSP3410D-QA-B4)

Q2501 UNR521100L
Q2502 UNR511100L
Q2503 UNR521100L
Q2519 UNR511100L
Q2510 UNR521100L
Q2511 UNR521100L
Q2512 2SD0601A0L
Q2513 2SB0709A0L
Q2514 2SD0601A0L
Q2515 2SB0709A0L
Q2516 2SD0601A0L
Q2517 UNR521100L
Q2518 UNR521100L

D2300 MAZ82000ML
D2304 MAZ82000ML
D2305 MAZ82000ML
D2308 MAZ82000ML
D2510 MA2J11100L
D2511 MA3X157A
D2512 MA3X152E
D2513 MA2C165001VT
D2518 MA3X152E
D801 B0JANE000009

L2301 EXCELSA35T
L2501 33
L2503 33
L2505 6.8
L2506 33
L2507 33

X2501 H0J184500020

TP2323 TP2324 TP2325 TP2326 TP2327 TP2328 TP2329 TP2330 TP2331 TP2332 TP2333 TP2334 TP2335 TP2336 TP2337 TP2340 TP2341 TP2342 TP2343 TP2344 TP2345 TP2348

A10 TO SPEAKER
R_GND SP_B_OUT L_GND
SP_R_OUT B_GND SP_L_OUT

DC 15V
8V
9V
5V
STB2.5V
STB5V
AUDIO15V
15V
MAINPOW
HPMUTE
MUTE
HPMUTE
SNDSRF
RESQ

15 16 17 18 19 20 21

A-BOARD TNPH0473AB (4/7)

⇨ AUDIO SIGNAL
➡ VIDEO SIGNAL

DC 15V
8V
9V
STB2.5V
5V
AUDIO15V
STB5V

IC001
C0ZBZ0000443
TUNER 30V

L001 G1ZZ00000032
L002 33
L004 220
L007 J0JHC0000001
L008 J0JHC0000001
L009 33
L010 33

C001 0.1
C002 1
C004 16V 47
C005 0.022
C008 0.1
C009 16V 47
C010 4.7 50V
C011 0.1
C012 16V 47
C013 6.3V 100
C014 50V 4.7
C016 0.1
C017 0.1
C018 0.1
C022 1
C023 0.1
C024 0.1
C025 4.7
C030 0.027

R001 1k
R002 560
R003 470
R004 820
R007 3.3k
R008 1k
R009
R010 3.3k
R011 560
R012 560
R013 330
R015 220
R016 10k
R017 4.7k
R018 100
R021 100
R022
R023
R024
R025 39k
R027 0
R031
R032 0
R046 39k
R047 39k
R048 0
R050 0
R051 0
R052 0
R053 0

Q001 2SD0601A0L
Q002 2SD0601A0L
Q003 2SD0601A0L
Q004 2SB0709A0L
Q005 2SB0709A0L

D001 MA3X152K
D002 MAZ302000L
D003 MAZ302000L

X001 EFCT7004BF
X002 EFCT6504BF

LG092 TJC85341
LG091 TJC85341

TNR001 EN2Z9508G

TP001 TP002 TP003 TP004 TP005 TP006 TP007 TP008 TP009 TP010 TP011 TP012 TP013 TP014 TP015 TP018 TP019 TP020 TP021 TP022 TP023 TP024 TP025 TP026 TP027 TP028 TP029 TP030 TP031 TP032 TP033 TP034

FG
FG
AGC
RF AGC
5V
NC
30V
NC
5V
NC
NC
AFC OUT
NC
VIDEO OUT
L/L'
NC
SIF
P/N
NC
5V
SDA_1
SCL_1
FG
FG

SDA_1
SCL_1
AFC1
TRAPON

A3
A4
B1
B2

B-BOARD TNPA2349AB

V-BOARD TNPA2395AB

RM001 PNA4601M05TV

R036 1k 1/10W
R040 47 1/10W
C031 0.01
C032 6.3V 47

V1
STB5V
LED
IRDA
15V
GND

D004 LNJ1101WHLEA
Q006 UNR521100L

STB3.3V
R865 47k
Q826 UNR521100L
A11
TP838
TP839
TP840
TP844

K-BOARD TNPA2396AB

R037 6.8k 1k
R039 12k 1k
R042 22k 1k
R044 68k 1k
R038 6.8k 1k

S001 EVQ23405R TV/AV
S003 EVQ23405R F
S005 EVQ23405R +/UP
S006 EVQ23405R -/DOWN
S007 EVQ23405R STR
S002 EVQ23405R ASPECT
S004 EVQ23405R MUTE

K1
GND
KEY1
PACH1_GND
KEY2
GND
GND

A6
TP841
TP842
TP843
KEY1
KEY2

22 23 24 25 26 27 28

A-BOARD TNPH0473AB (5/7)

⇨ AUDIO SIGNAL
➡ VIDEO SIGNAL

Ⓐ DC 15V
Ⓑ 8V
Ⓒ 9V
Ⓓ STB2.5V
Ⓔ 5V
Ⓕ AUDIO15V
Ⓖ STB5V
Ⓗ 15V

P2-BOARD TNPA2393AB

TO LCD PANEL (BACK LIGHT) P6
TO LCD PANEL (BACK LIGHT) P7
TO LCD PANEL (BACK LIGHT) P3
TO LCD PANEL (BACK LIGHT) P4

P8 TOP — P2 TOP

TP601 TP602 TP603 TP604 TP605 TP606 TP621 TP622 TP623 TP624 TP625 TP626 TP627 TP628 TP629 TP630 TP631 TP632 TP680 TP681 TP682 TP683 TP684 TP685 TP686

T601 ETJ23K12AM
T602 ETJ23K12AM
T680 ETJ23K12AM
T681 ETJ23K12AM

D615 MA2J11100L
D680 MA2J11100L
D681 MA2J11100L
D601 MA2J11100L
D602 MA2J11100L
D684 B0ADCJ000015
D685 B0ADCJ000015
D613 B0ADCJ000015
D614 B0ADCJ000015
D608 B0JCNE000004
D607 B0JCNE000004
D606 B0JCNE000004
D605 B0JCNE000004
D612 MA2J11300L
D610 MA2J11300L
D611 MA2J11300L
D609 MA2J11300L

Q680 2SD0601A0L
Q681 2SD0601A0L
Q608 2SD0601A0L
Q611 2SD0601A0L
Q616 B1BBFF000001
Q617 B1BBFF000001
Q614 B1BBFF000003
Q615 B1BBFF000003

LG682 TJC85341
LG681 TJC85341

P1-BOARD TNPA2392AB

Ⓘ STB3.3V
Ⓙ
Ⓚ
Ⓛ
Ⓜ
Ⓝ
Ⓞ STB3.3V
Ⓟ
Ⓠ

29 30 31 32 33 34 35

A-BOARD TNPH0473AB (6/7)

AUDIO SIGNAL
VIDEO SIGNAL

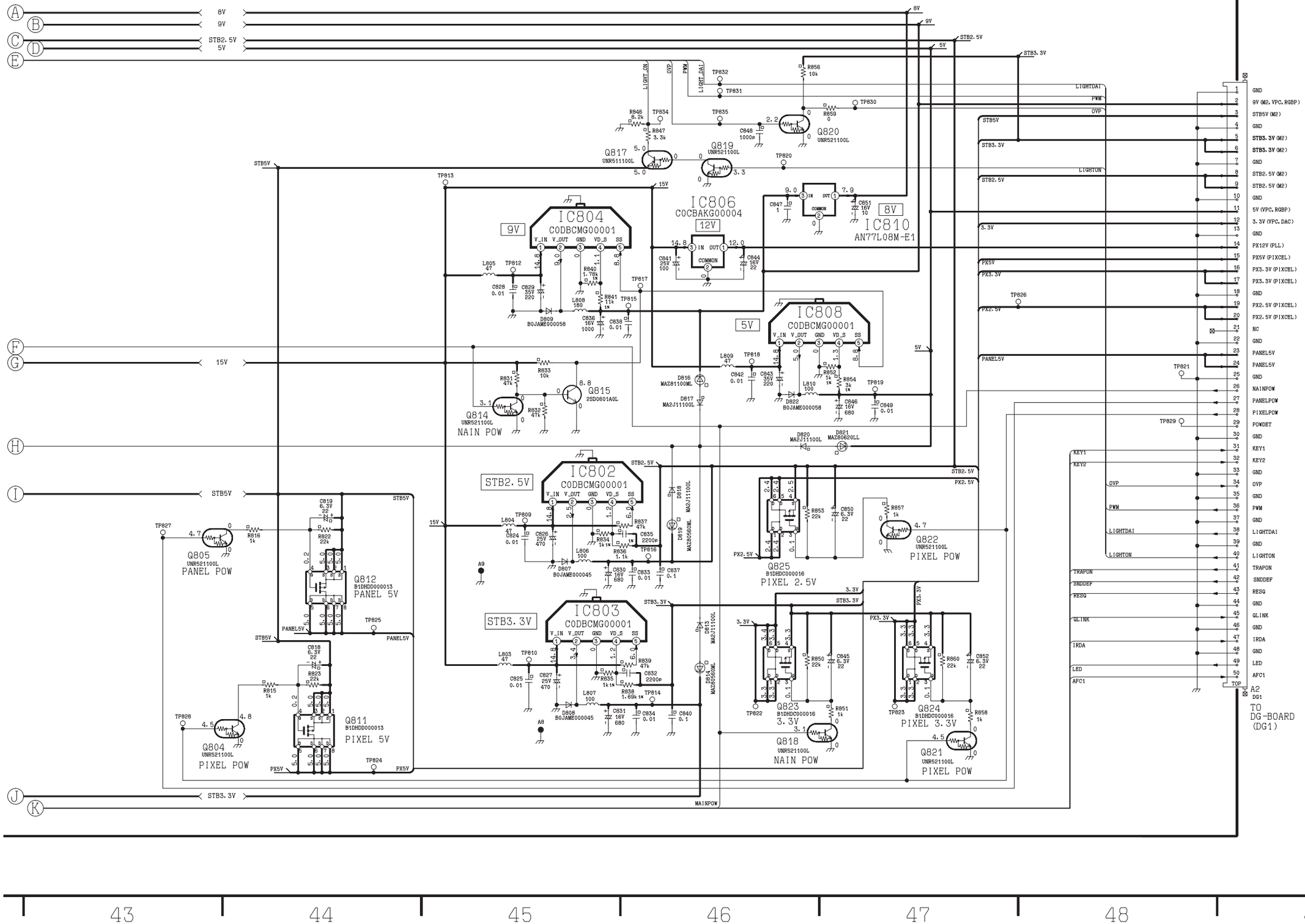
DC 15V
8V
9V
STB2.5V 5V
AUDIO15V
STB5V
15V
STB3.3V

P1-BOARD TNPA2392AB

Q607 B1DHGD000007
Q605 (Q001LCD)
Q602 2SB1219ALL
Q601 UNR521100L
Q603 2SC3938GLL
Q604 (Q001LCD)
Q606 B1DGGD000001
Q613 UNR511100L
Q610 UNR521100L
Q612 UNR511100L
Q609 UNR521100L
IC602 C0DBCMA00004
IC601 C0ABBA000073 OP AMP
Q810 B1DHDD000013
Q803 B1DHDD000013 15V
Q813 2SD0601AOL NAIN POW
Q807 UNR521100L
Q808 2SB0709A0L
Q806 2SD0601AOL
IC801 C0DBCMG00001
STB5V
JK2502 K2HC103B0095 HEAD PHONE
POWER SW S801 K0F122A00142
LG606 LG603 LG602 LG601 TJC85341
D804 MA2J11100L
D805 MA2J11100L
D806 MAZ80620LL
D802 B0JAME000045

A-BOARD TNPH0473AB (7/7)

⇨ AUDIO SIGNAL
➡ VIDEO SIGNAL



43 44 45 46 47 48 49

A-BOARD

H1-BOARD

JK801
<DC 15V IN>
FROM AC ADAPTER

H2

A12

15V
15V
15V
15V
15V
15V

V-BOARD

REMOCON SENSOR

RM001

VCC

LED
To IC1002-77
(DG-Board)

Q006

POWER LED

D004

V1

A6

15V

STB5V

P6

TO BACK LIGHT

VH
VH
VL

P7

TO BACK LIGHT

VH
VH
VL

P2-BOARD

P8

P2

P1-BOARD

P5

A18

SW_2
SW_2
SW_3
SW_3

S801

POWER SWITCH

P3

TO BACK LIGHT

VH
VH
VL

D613

Q608

T601

Q607

PA618

P4

TO BACK LIGHT

VH
VH
VL

D614

Q611

T602

Q606

PA619

Q605

IC602
PWM CONTROL

Q604

IC601
OP AMP

Q602

Q601

LIGHT ON
From IC1002-97
(DG-Board)

P1

A5

15V
15V
15V

OVP

IC2301
AUDIO AMP

OVP
To IC1002-9
(DG-Board)

Q803

Q807

Q808

Q806

Q810

Q813

MAIN POW
From IC1002-92
(DG-Board)

IC806
12V

IN
OUT
COMMON

12V

IC804
9V

+9V

V_IN
V_OUT
GND
VD_S

D817

D816

IC4002
AV SWITCH

9V

IC808
5V

+5V

Q815

Q814

MAIN POW
From IC1002-92
(DG-Board)

D820

D821

5V

IC802
STB2.5V

+2.5V

D818

D819

STB2.5V

IC803
STB3.3V

+3.3V

D813

D814

STB3.3V

IC801
STB5V

+5V

D805

D806

STB5V

A-BOARD
B-BOARD
DG-BOARD
A2
DG1
DG3
12V
9V
5V
PX12V
IC001
TUNER 30V
L001
VIN
OSC
DK
VOUT
GND
T1
A4
B2
30V
5V
5V
TNR001
TUNER
BTL
BV
+B
IC810
8V
IN
OUT
COMMON
IC2503
MSP
IC6305
OP AMP
IC905
SWICTH
IC906
SWICTH
Q902
Q905
From FACTORY USED
IC9505
RGB PROCESSOR
IC901
SWITCH
Q908
Q909
IC908
SWICTH
IC909
SWITCH
IC907
SWICTH
Q903
Q904
Q906
Q907
IC3003
DAC
IC3004
RESET
IC3001
EEPROM
IC3002
MCU
IC9001
VPC
IC2502
HP AMP
IC1002
MCU
IC6302
PIXEL CONVERTTER
IC6001
A/D
IC6301
D FF
IC6304
BUFFER
IC6306
INVERTER
IC1007
8M FLASH
IC1008
16M SDRAM
IC1003
RESET
IC1005
RESET
IC1006
OR GATE
IC9501
D FF
IC9502
DAC
IC910
LEVEL SHIFT
IC1001
LEVEL SHIFT
STB2.5V
PX2.5V ON/OFF
Q825
Q822
PIXEL POW
From IC3002-78
(DG-Board)
PX3.3V ON/OFF
Q824
Q821
STB3.3V
3.3V ON/OFF
Q823
Q818
MAIN POW
From IC1002-92
(DG-Board)
PX5V ON/OFF
Q823
Q804
PIXEL POW
From IC3002-78
(DG-Board)
STB5V
PANEL5V ON/OFF
Q812
Q805
PANEL POW
From IC3002-83
(DG-Board)
PX2.5V
PX3.3V
3.3V
PX5V
PANEL5V
VDD
LCD PANEL
8
9
10
11
12
13
14